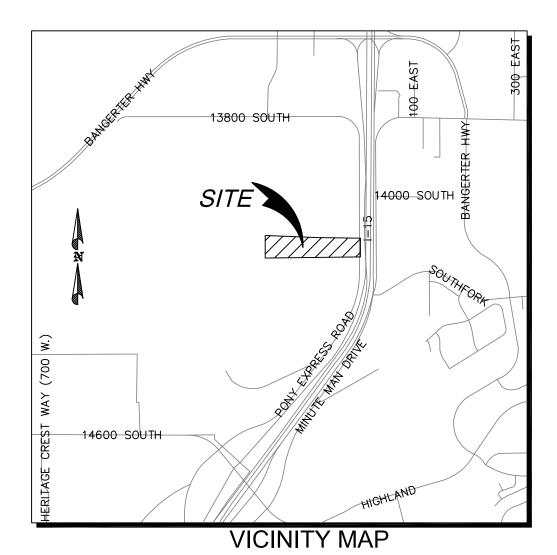
UCI PRODUCTION WAREHOUSE

UTAH DIVISION OF FACILITIES, CONSTRUCTION, AND MANAGEMENT PROJECT NUMBER 07284110





CONSTRUCTION NOTES

GENERAL NOTES:

- 1. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH UTAH DIVISION OF FACILITIES, CONSTRUCTION AND MANAGEMENT (DFCM). SEE SEWER AND WATERLINE NOTES FOR ADDITIONAL REQUIREMENTS. CONTRACTOR TO OBTAIN CURRENT STANDARDS AT DFCM WEB SITE.
- 2. CONTRACTOR RESPONSIBLE FOR PROTECTION OF ALL UTILITIES SHOWN OR NOT SHOWN.
 3. CONTRACTORS SHALL ATTEND ALL PRE—CONSTRUCTION CONFERENCES AND ABIDE BY DIRECTIVES AND DECISIONS MADE
- THEREIN.

 4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PUBLIC SAFETY AND OSHA STANDARDS.
- 5. LOCATION AND INSTALLATION OF GAS, POWER, TELEPHONE, AND CABLE LINES TO BE DONE IN ACCORDANCE WITH STANDARDS.
 6. CONTRACTOR TO FIELD VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- 7. CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS FOR WATER AND FIRE, OWNER WILL OBTAIN PERMIT AND PAY ANY FEES FOR ROCKY MOUNTAIN POWER.
- THE UTAH POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT ON SITE DURING THE COURSE OF CONSTRUCTION.

 CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH THESE STATE REQUIRED DOCUMENTS.
- 9. WHEN INSTALLING PROPOSED UTILITIES, CONTRACTOR TO IDENTIFY POTENTIAL CONFLICTS BETWEEN STORM DRAIN, CULINARY WATER, AND/OR SECONDARY WATER. IN ALL CASES, STORM DRAIN DESIGN SHALL GOVERN.
- 10. IF CONSTRUCTION WORK IS IN EXISTING ASPHALT AREAS, CONTRACTOR TO SAWCUT EXISTING ASPHALT FOR MATCH.
 11. THE BENCHAMRK FOR THIS PROJECT IS THE FOUND WITNESS VORNER MARKED "115" PER DOMINION ENGINEERING SURVEY DATED JUNE 28, 2007, HAVING AN ELEVATION OF 4473.64'.
 WATERLINE NOTES:
- 12. CULINARY WATER SYSTEMS TO BE CONSTRUCTED PER DFCM AND DRAPER CITY STANDARDS AND SPECIFICATIONS.
- 13. CULINARY WATERLINES TO BE PVC C-900 (CLASS 150 P.S.I.) UNLESS OTHERWISE NOTED.
 14. THE CULINARY WATER SERVICE LATERAL IS TO BE A 1" WITH A 1" METER.
- 15. ALL CULINARY WATERLINES SHALL BE 48" BELOW FINISHED GRADE TO TOP OF PIPE.
- 16. ALL VALVE COVERS TO BE RAISED OR LOWERED TO FINISHED GRADE.

 17. THE CHILDRARY WATER SERVICE LATERAL IS TO INCLUDE A BRASS SADDLE: BALL OF
- 17. THE CULINARY WATER SERVICE LATERAL IS TO INCLUDE A BRASS SADDLE; BALL CORP. STOP; 1" LATERAL, METER YOKE WITH LOCKING WINGS, DOUBLE CHECK VALVE BACKFLOW PREVENTION DEVICE; CONCRETE OR ADS METER PIT; AND C.I. RING AND COVER WITH 2" HOLE.
- 18. CONTRACTOR TO NOTIFY DRAPER CITY FOR CHLORINE TEST PRIOR TO FLUSHING LINES. CHLORINE TESTING TO BE DONE IN ACCORDANCE WITH DRAPER CITY STANDARDS AND SPECIFICATIONS.

 19. CONTRACTOR TO ADJUST DEPTH OF WATERLINE TO CLEAR STORM DRAIN AND SEWER LINES.

SEWER NOTES:

20. ALL SANITARY SEWER CONSTRUCTION AND MATERIALS SHALL CONFORM TO SOUTH VALLEY SEWER DISTRICT STANDARDS AND SPECIFICATIONS.
21. SEWER LATERAL PIPE TO BE 3" PVC ASTM 3034 SDR 35.

22. SEWER LATERAL TRENCH, AND COMPACTED TO 85% OF THE MODIFIED PROCTOR VALUE.

STORM DRAIN NOTES:

23. ALL STORM DRAIN PIPE SHALL BE HDPE (ADS N-12), UNLESS OTHERWISE NOTED. 24. ALL STORM DRAIN JOINTS ARE TO BE RATED TO 20 PSI.

	DRAWING INDEX
SHEET	DESCRIPTION
COVER	COVER PAGE
CIVIL	
CE101	SITE, GRADING AND DRAINAGE PLAN
CE102	EROSION CONTROL PLAN
CE103	SITE PLAN DETAILS
ARCH	ITECTURAL
AE101	FLOOR PLAN
AE102	ROOF PLAN
AE111	RELFECTION CEILING PLAN
AE201	EXTERIOR ELEVATION
AE202	EXTERIOR ELEVATION
AE301	BUILDING SECTION
AE302	WALL SECTION
AE303	WALL SECTION
AE401	ENLARGED FLOOR PLAN
AE402	ENLARGED FLOOR PLAN
AE501	DETAILS
STRU	CTURAL
S101	GENERAL STRUCTURAL NOTES
S102	GENERAL STRUCTURAL NOTES
S201	FOOTING AND FOUNDATION PLAN
S202	MEZZANINE FRAMING PLAN DETAILS
S301	SCHEDULES
S501	FOOTING AND FOUNDATION DETAILS
S502	FOOTING AND FOUNDATION DETAILS
MECH	HANICAL
MH001	LEGEND AND NOTES
MH101	FLOOR PLAN
MH501	DETAILS
MH601	SCHEDULE
PP101	PLUMBING FLOOR PLAN
PP401	PLUMBING FLOOR PLAN
	I TRICAL
EG001	SYMBOLS
EG002	DETAILS
EG003	DETAILS AND RISER DIAGRAMS
ES101	SITE PLAN
EL101	LIGHT PLAN
EP101	POWER PLAN
EP101 EP401	ENLARGED DRAWING AND SCHEDULES
EP701	ONE LINE AND RISER DRAWINGS
	PANEL SCHEDULE AND ENERGY CODES
EP801	I THELL SOULDOLL AND LINENG! CODES

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	nternational Plumbing (nternational Fire Code	2006 2006	Building Conservation ADA Accessibility	on <u>N/A</u>
	nternational Energy Conservation Code	2006	Guidelines	2006
		S-1	P(ACCESSORY TO S_1)	
A.			B(ACCESSORY TO S-1)	
	•		Mixed Occupancy: Yes h Rise, Covered Mall):	
В.	Seismic Design Cate	gory: D	Design Wind Speed:	90 mph
C.	Type of Construction	(circle one):		
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D.	separation distance ((in hours):	ts for the Exterior Walls base	ed on the fire
	North: 0 South	n: <u>0</u> East: _	0 West: 0	
E.	Mixed Occupancies:	No	onseparated Uses: X	-
F:	Sprinklers:			
	Required: X	Provided: X	Type of Sprinkler Syster	m:
G:	Number of Stories:	1 Building	g Height: 25' (APPROX)	
H:	Actual Area per Flo	or (square feet): _	24,300 S.F.	
l:	Tabular Area:			
J:	Area Modifications:			_
	_	$\left[A_{t} \right]_{s}$	$I_f = \left[\frac{F}{P} - 0.25 \right]$	W
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	GIVEN IN UTAH STATE			CEPTION
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e) Fire Assembly Locator Sheet.

3) deferred Submittals1) STEEL BUILDING2) FIRE SYSTEM

f) Exterior and Interior Accessibility Route.

g) Fire Stopping, Including Tested Design Number.

CODE ANALYSIS



WILDING ENGINEERING, INC

ARCHITECT
CRS ASSOCIATES
700 NORTH 200 WEST
SALT LAKE CITY, UTAH 84103
(801) 355-5915 (801) 355-9885
DAVID TRIPLETT davet@crsa-us.com

MECHANICAL
ENGINEERED MECHANICAL SOLUTIONS
986 WEST ATHERTON DRIVE, SUITE 200
TAYLORSVILLE, UTAH 84 | 23
(80 |)268-3828 (80 |)268-3297
SCOTT DEAKINS scott@smdengineering.com

ELECTRICAL
ENVISION ENGINEERING
244 WEST 300 NORTH STE 100
SALT LAKE CITY, UTAH 84103
(801)534-1130
(801)913-4756
DAVE WHITTON
dwhitton@envisioneng.com

STRUCTURAL

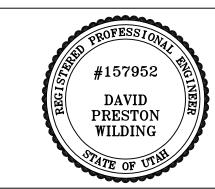
DUNN ASSOCIATES, INC.

380 WEST 800 SOUTH STE 100

SALT LAKE CITY, UT 84101

(801)575-8877 (801)575-8875

CHRIS BAKER wmchrisb@dunn-se.com



UCI PRODUCTION WAREHOUSE

14126 PONY EXPRESS ROAD DRAPER, UT 84020

UTAH DIVISION OF FACILITIES, CONSTRUCTION AND MANAGEMENT (DFCM)
4110 STATE OFFICE BUILDING SALT LAKE CITY, UTAH 84114

DFCM
PROJECT NO. 07284110
CONTRACT NO. 087137

O1/14/08 RELEASED TO CLIENT
O4/01/08 UPDATE TO CODE ANALYSIS

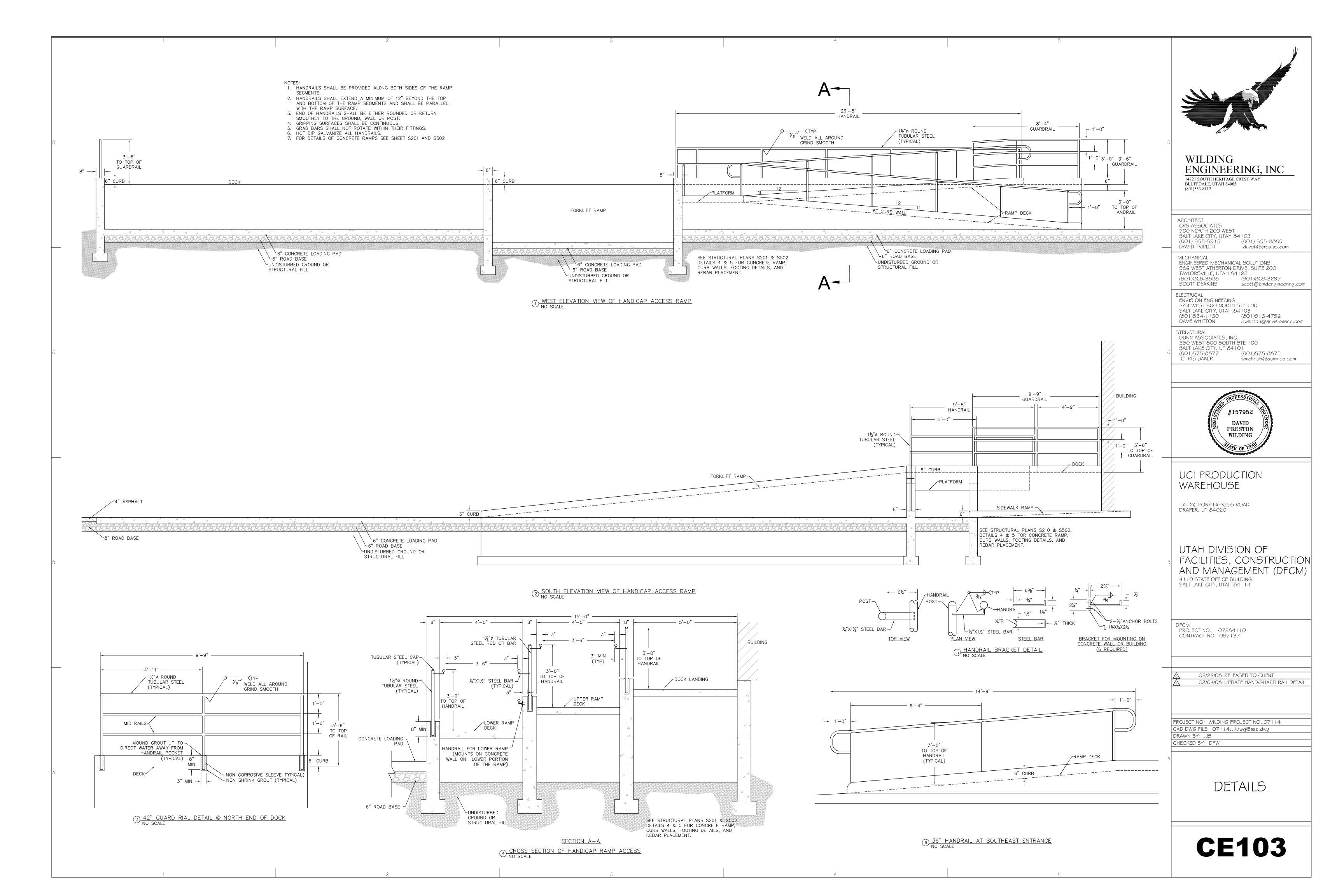
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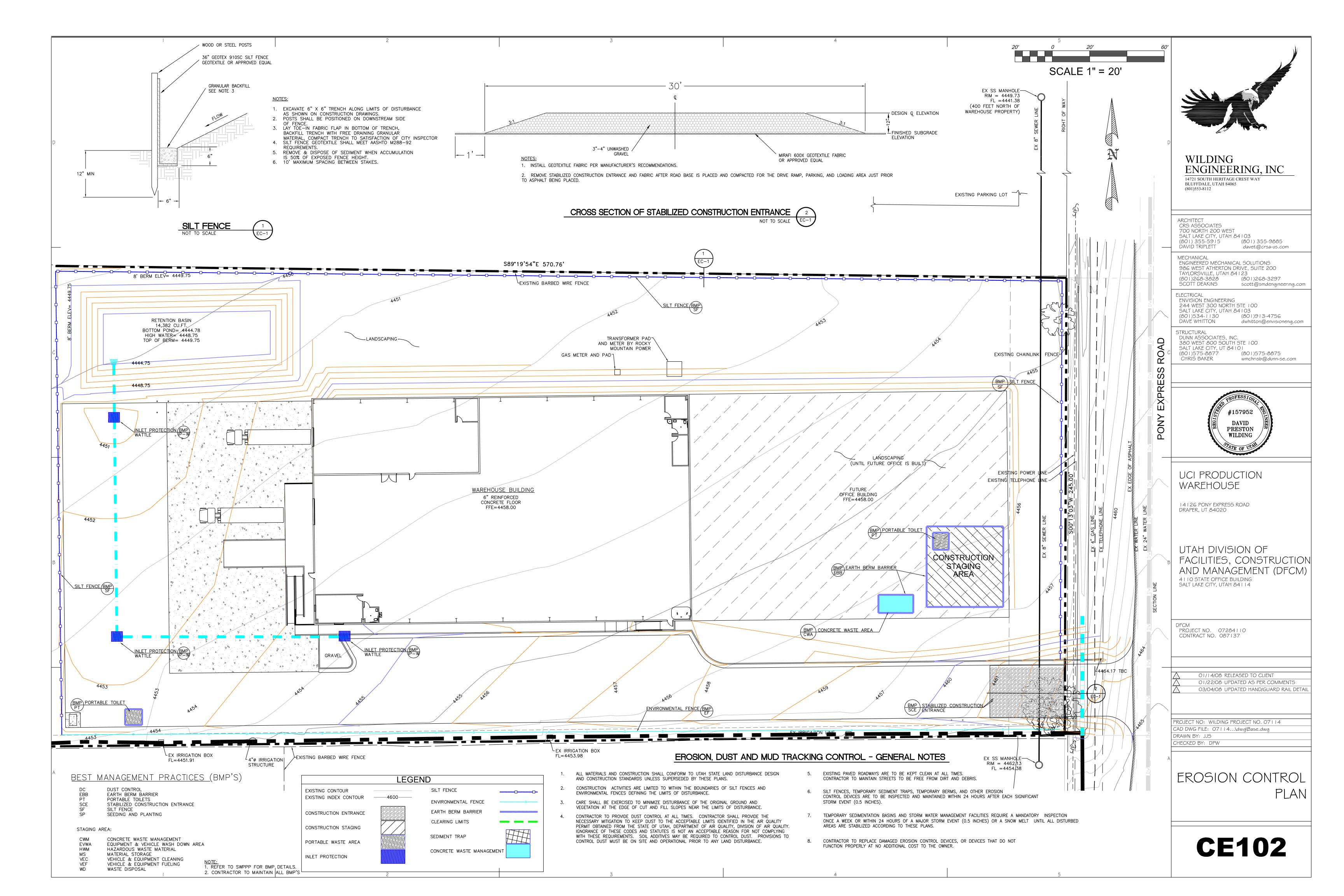
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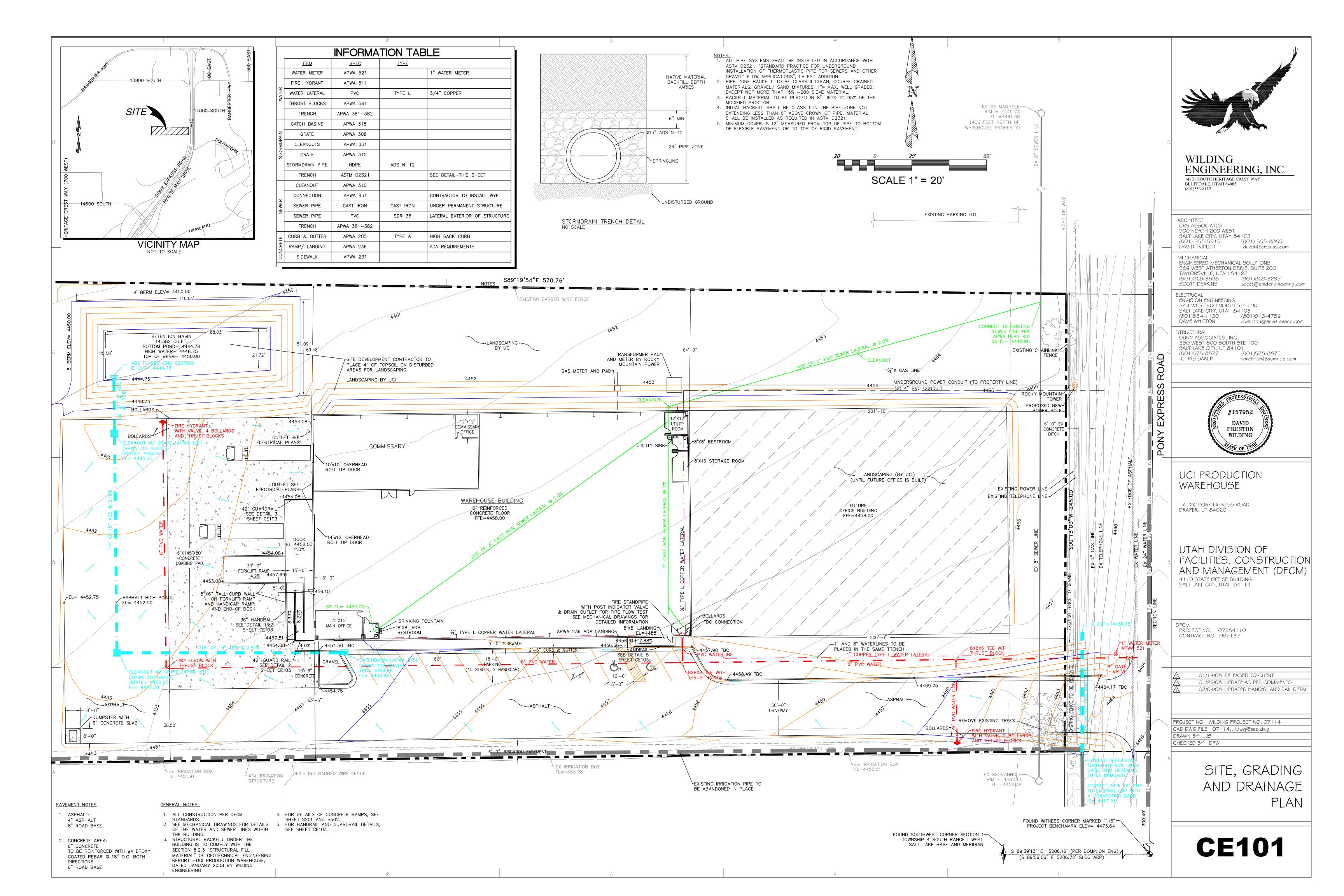
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CHECKED BY: DPW

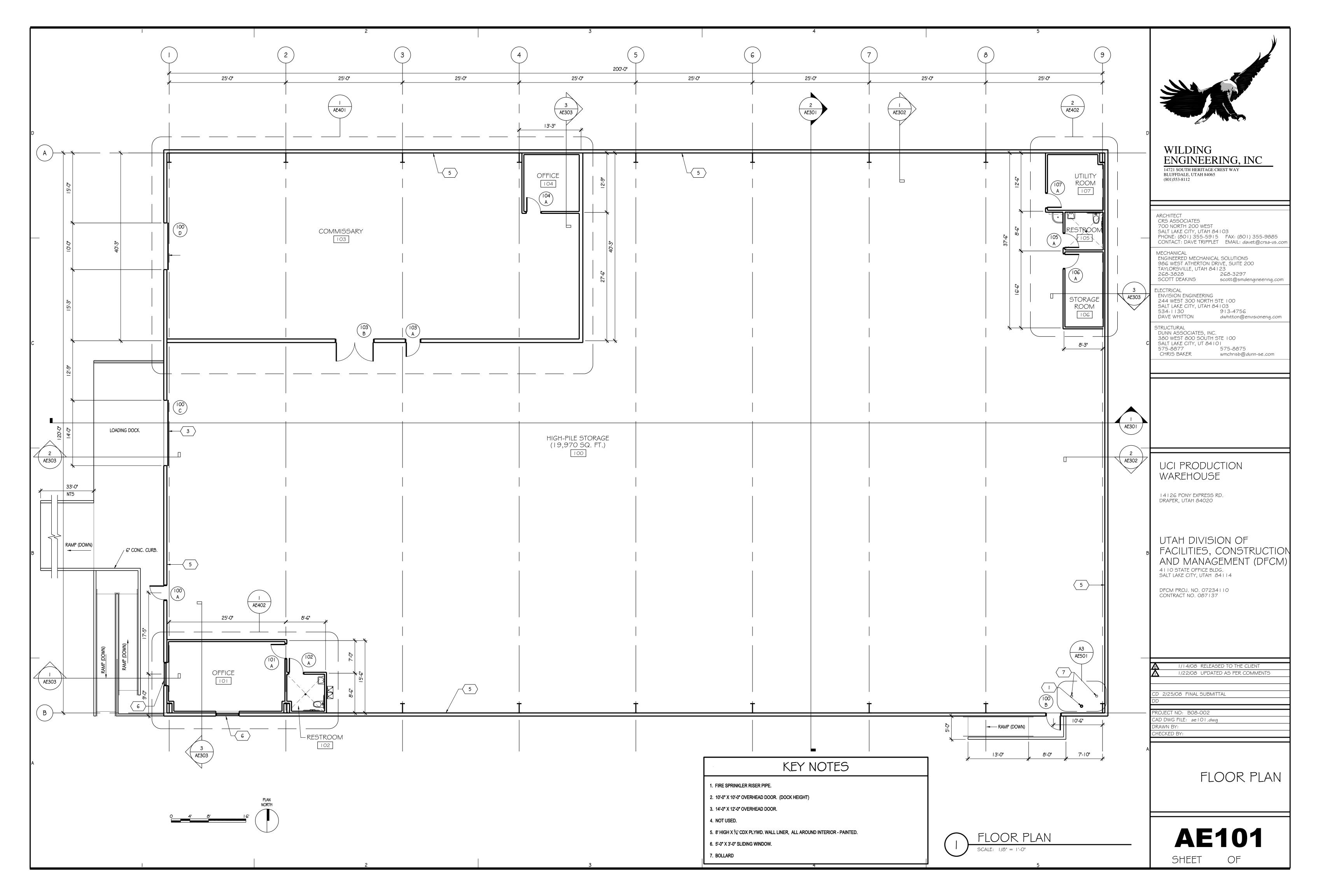
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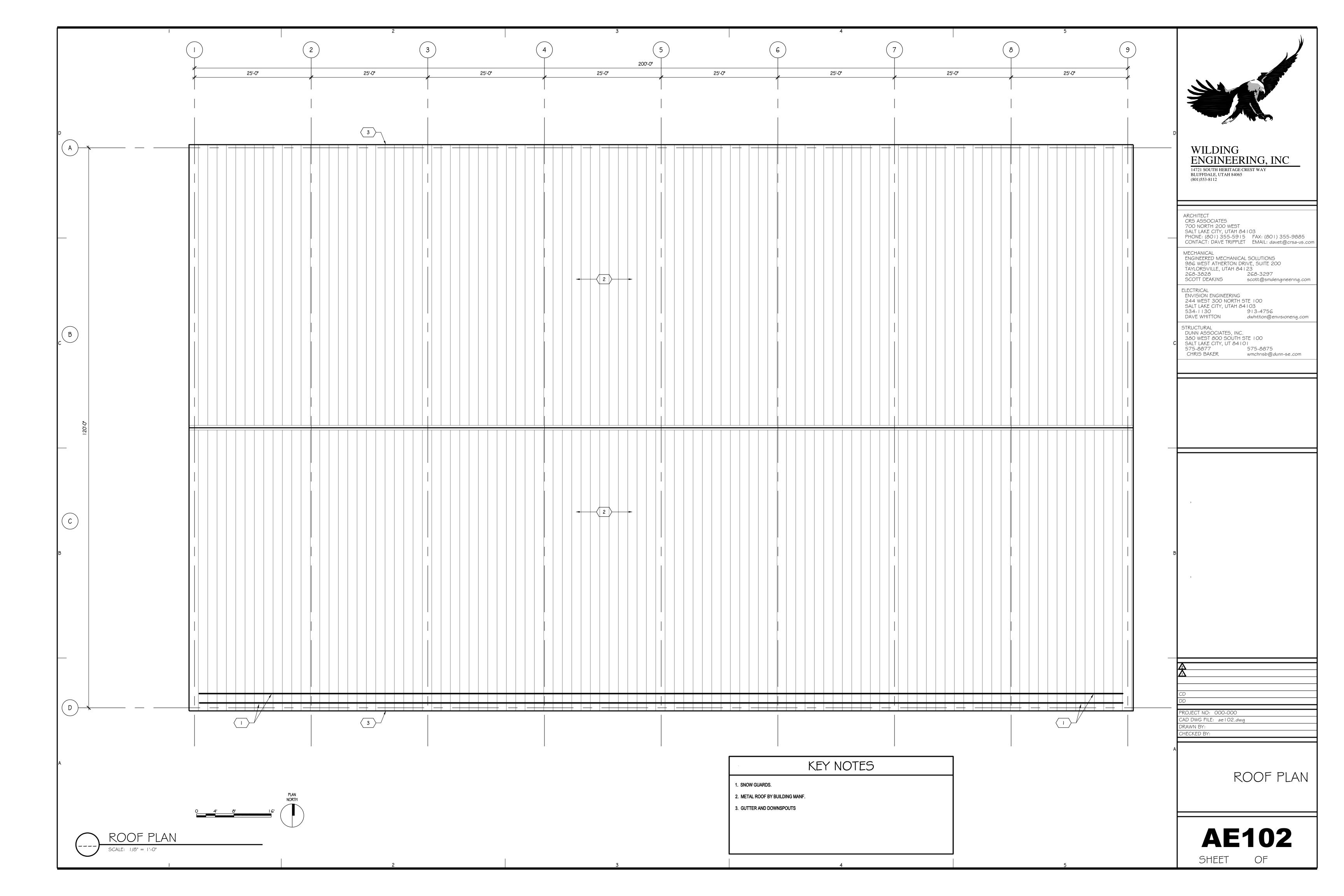
COVER

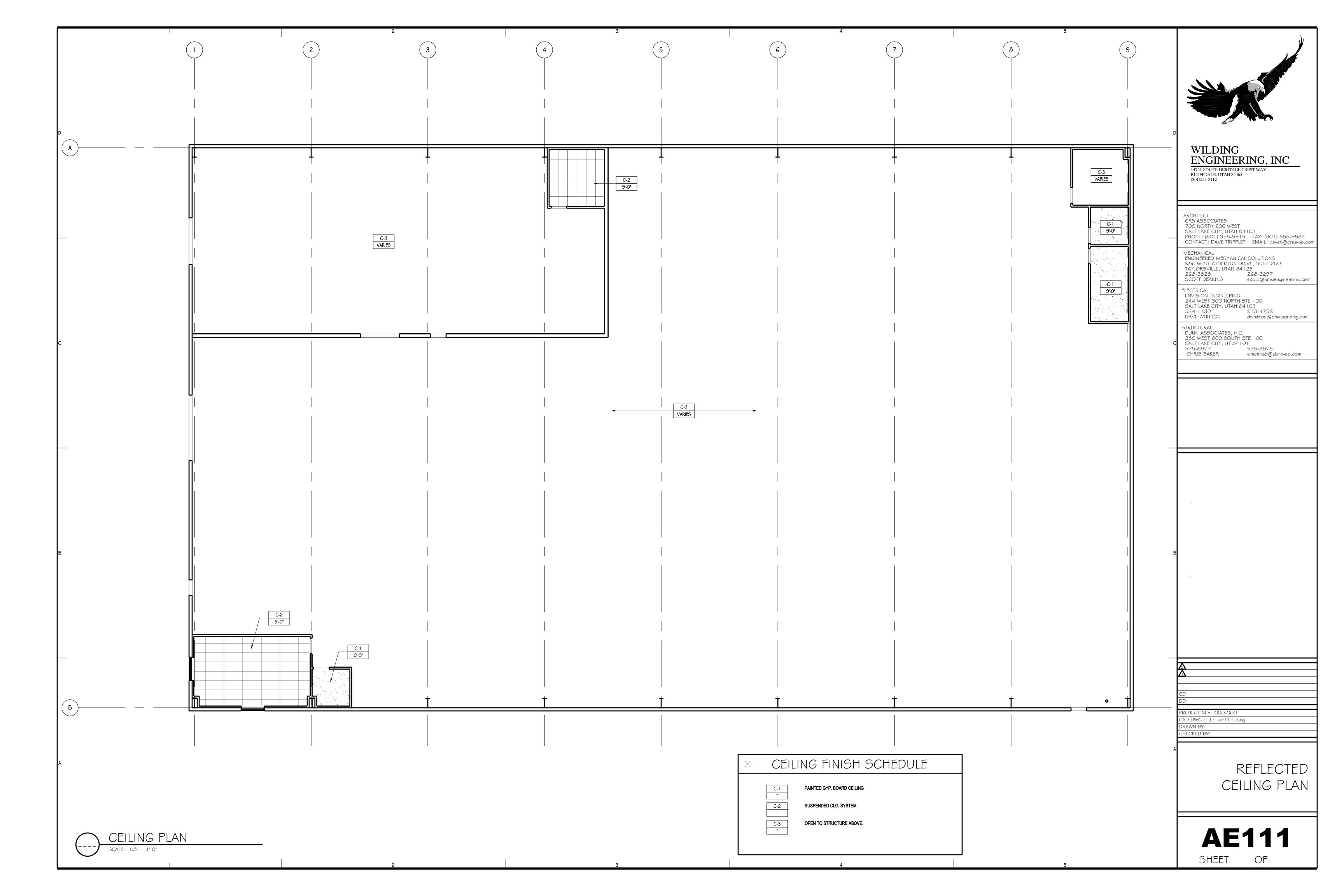


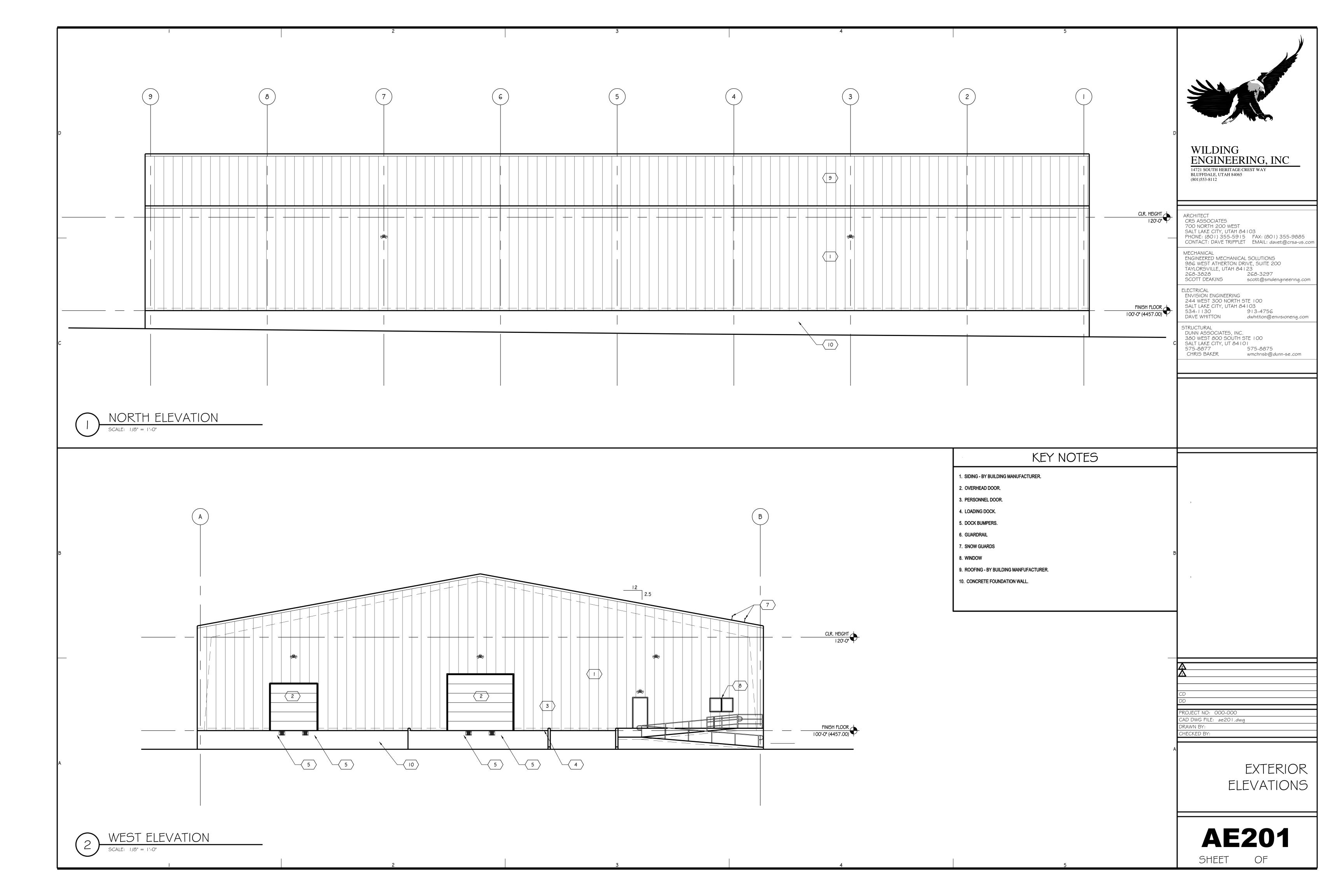


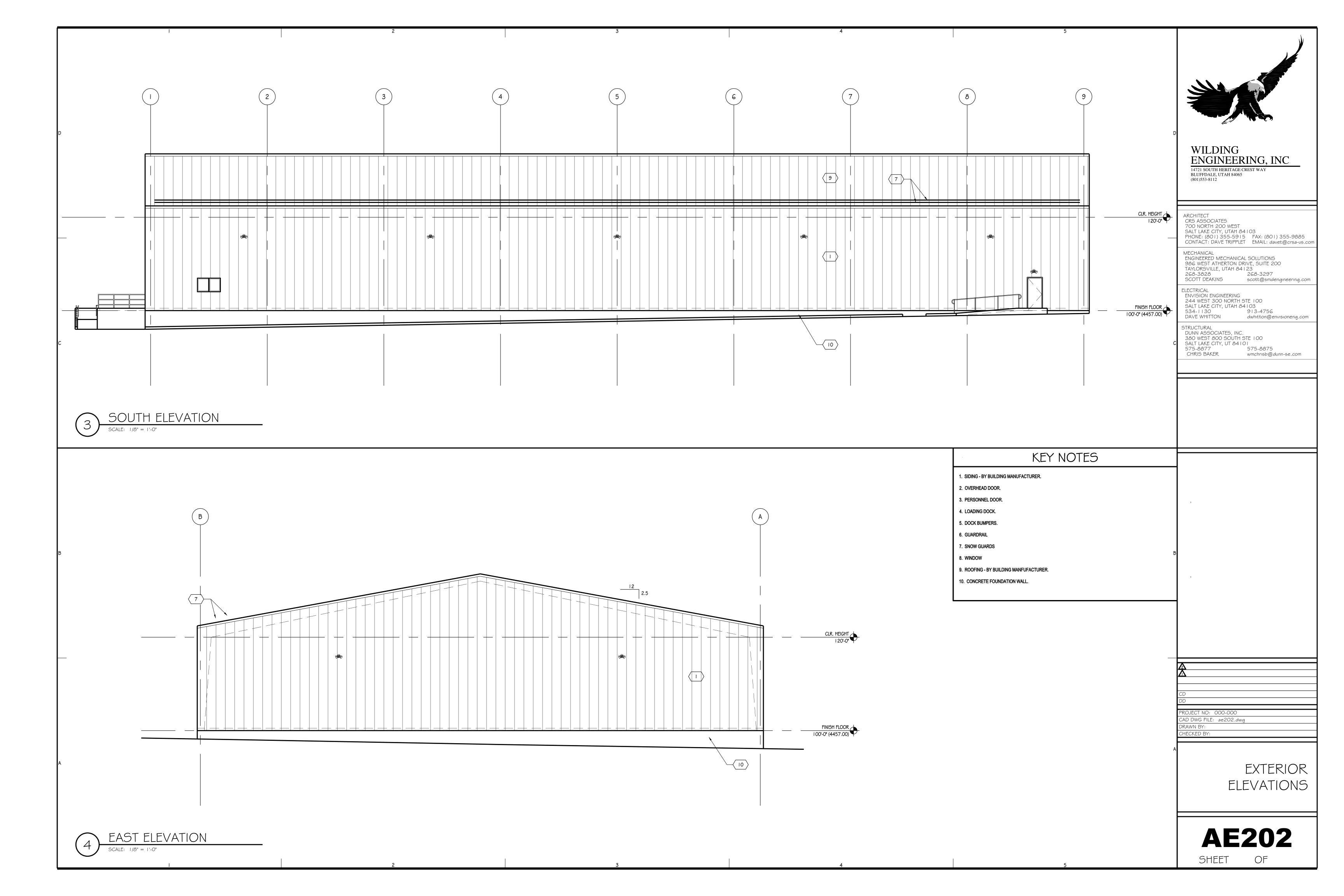


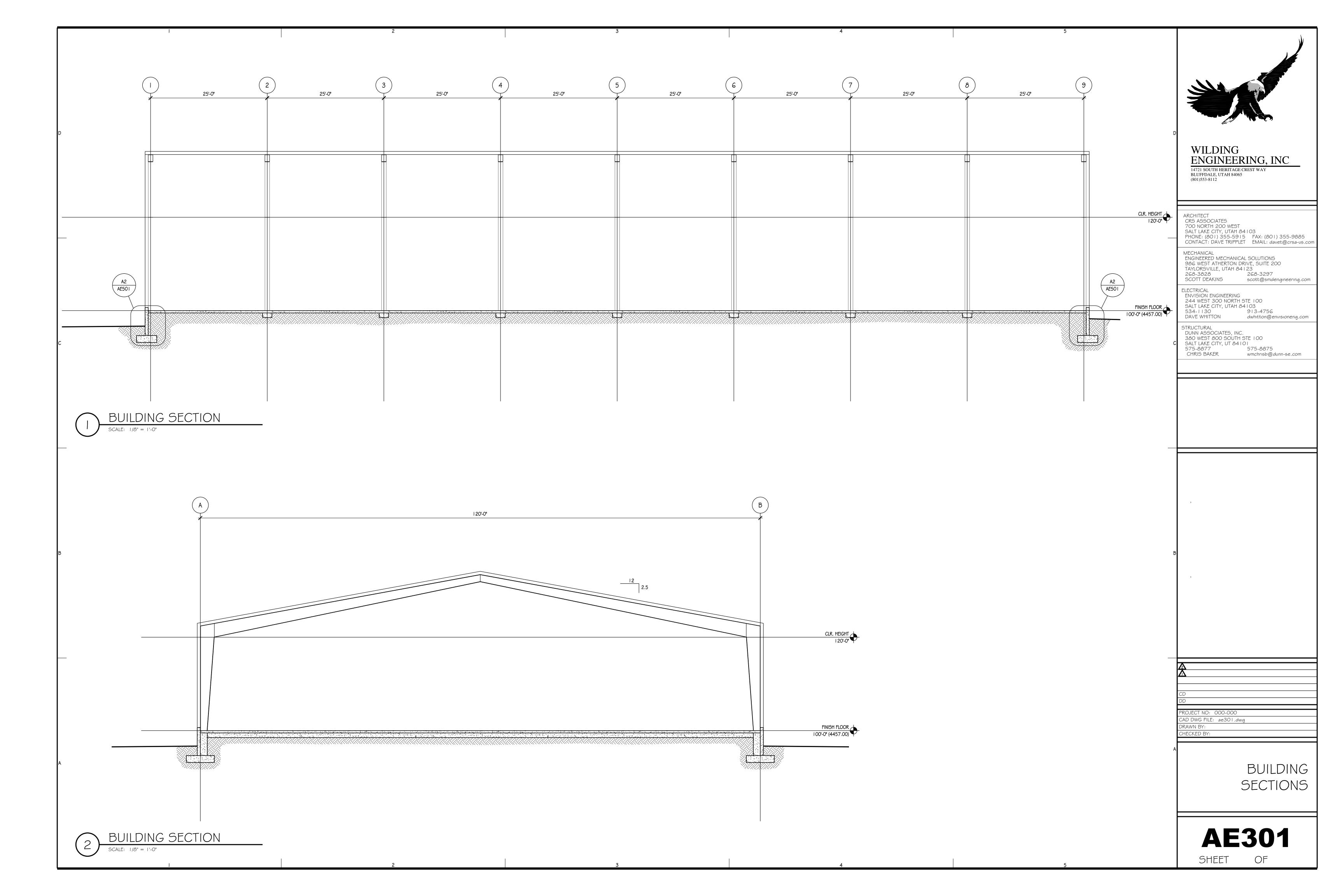


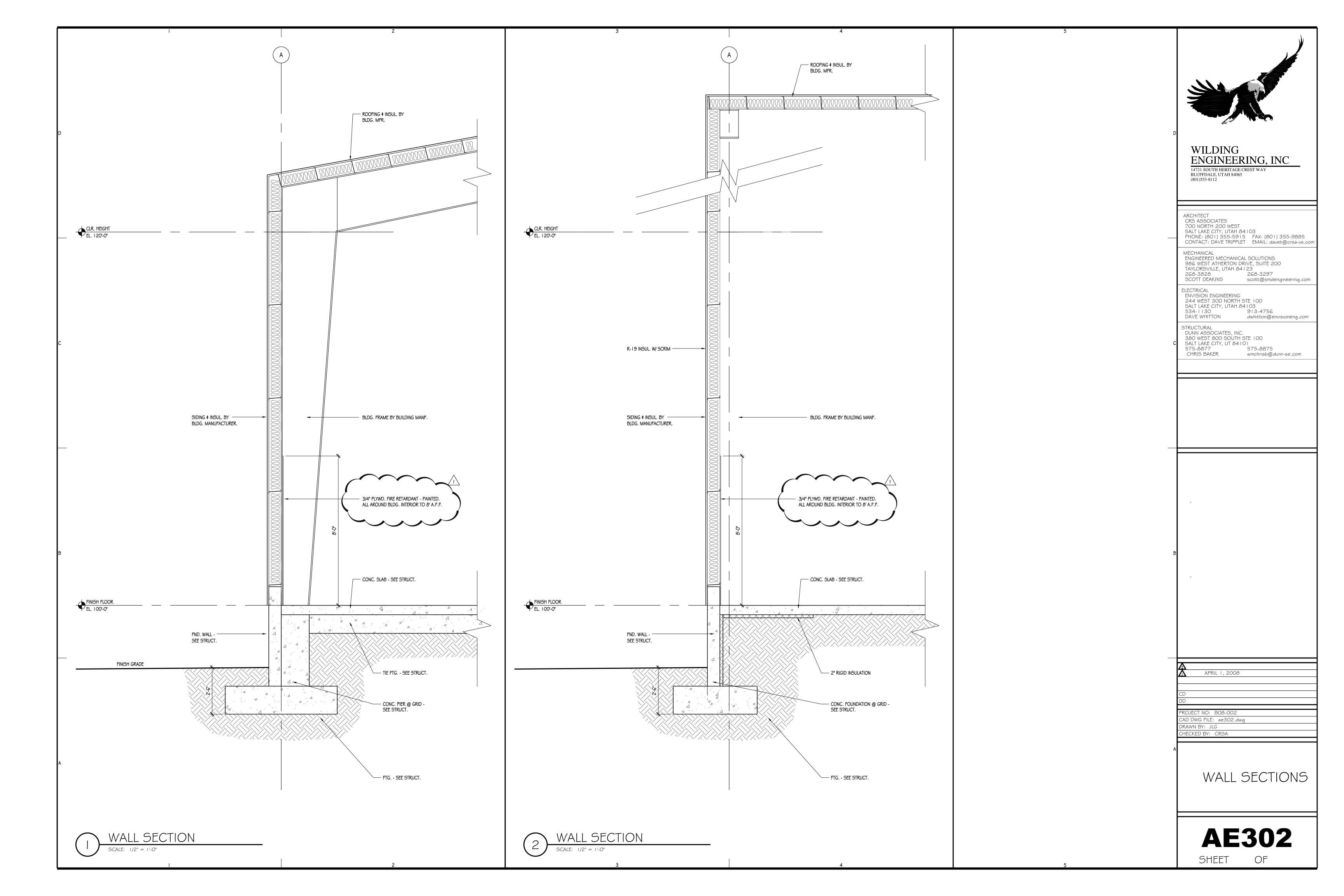


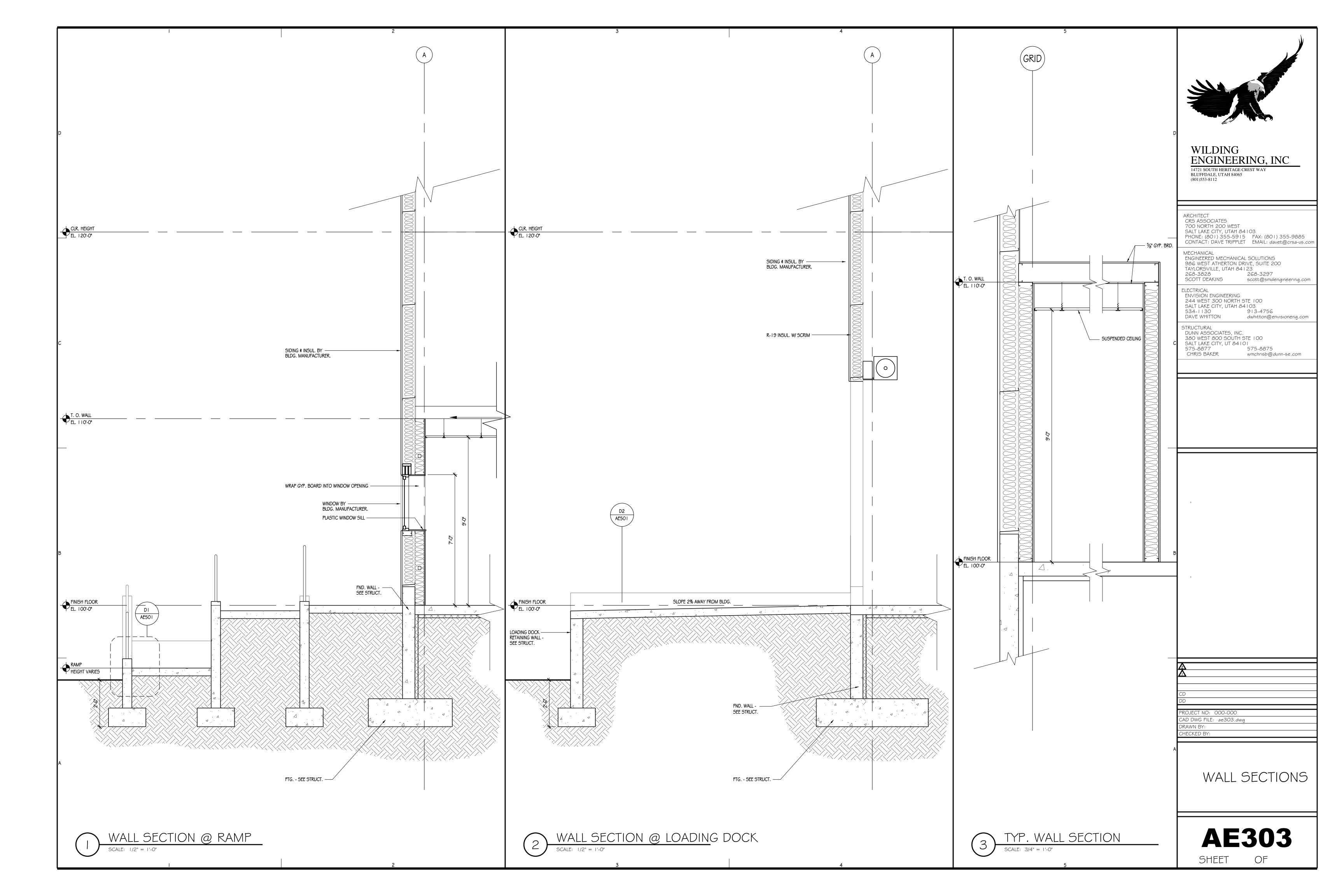


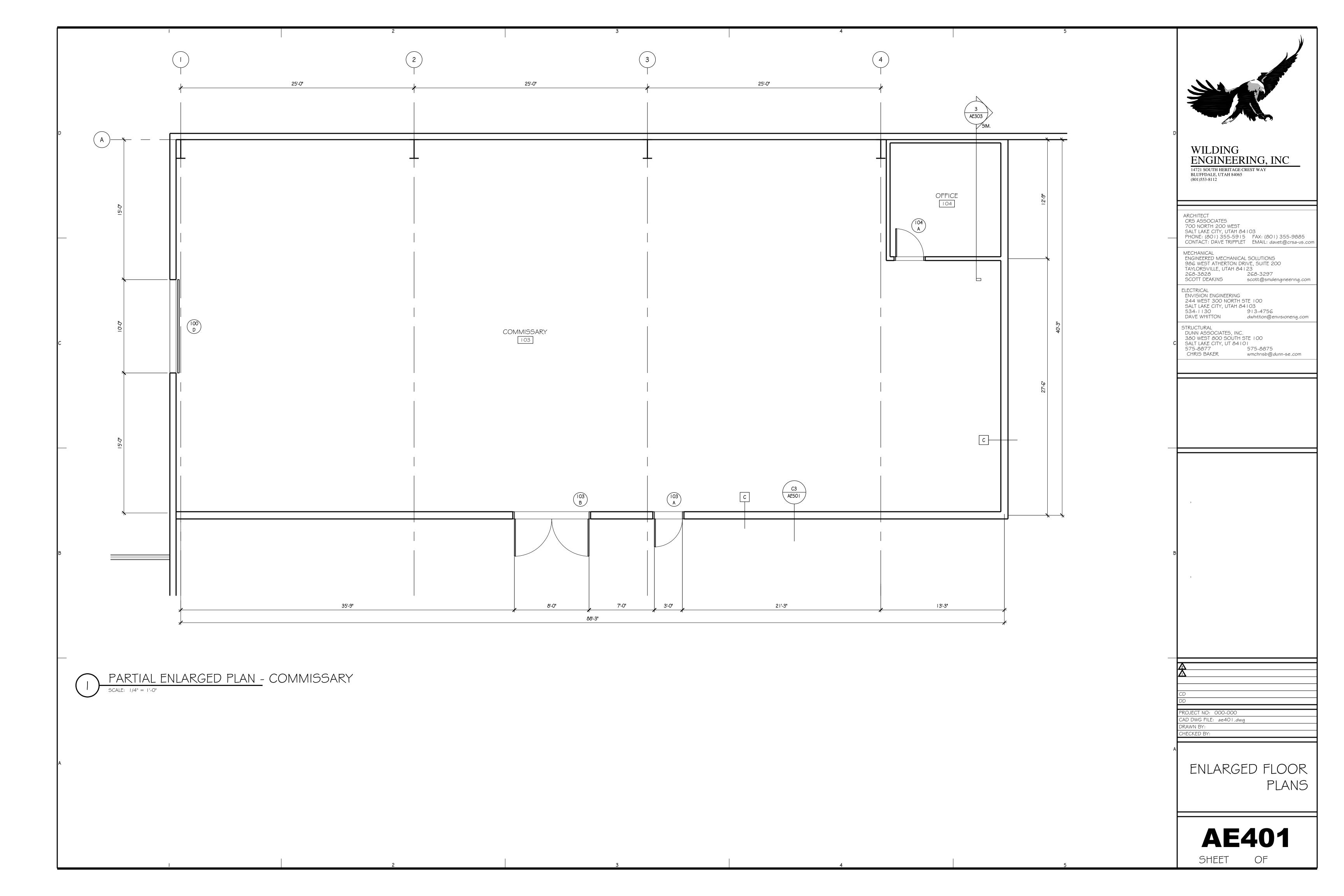


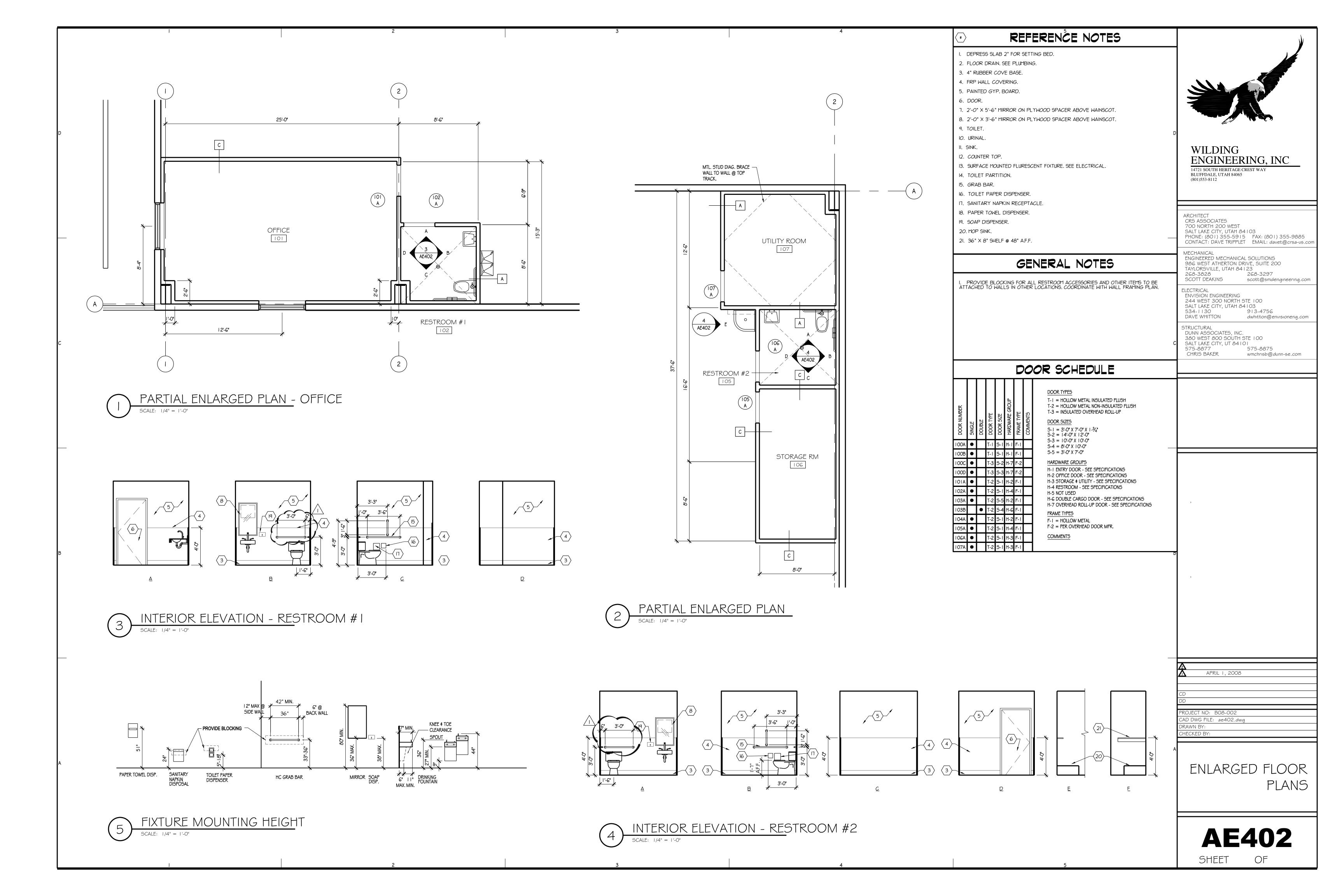


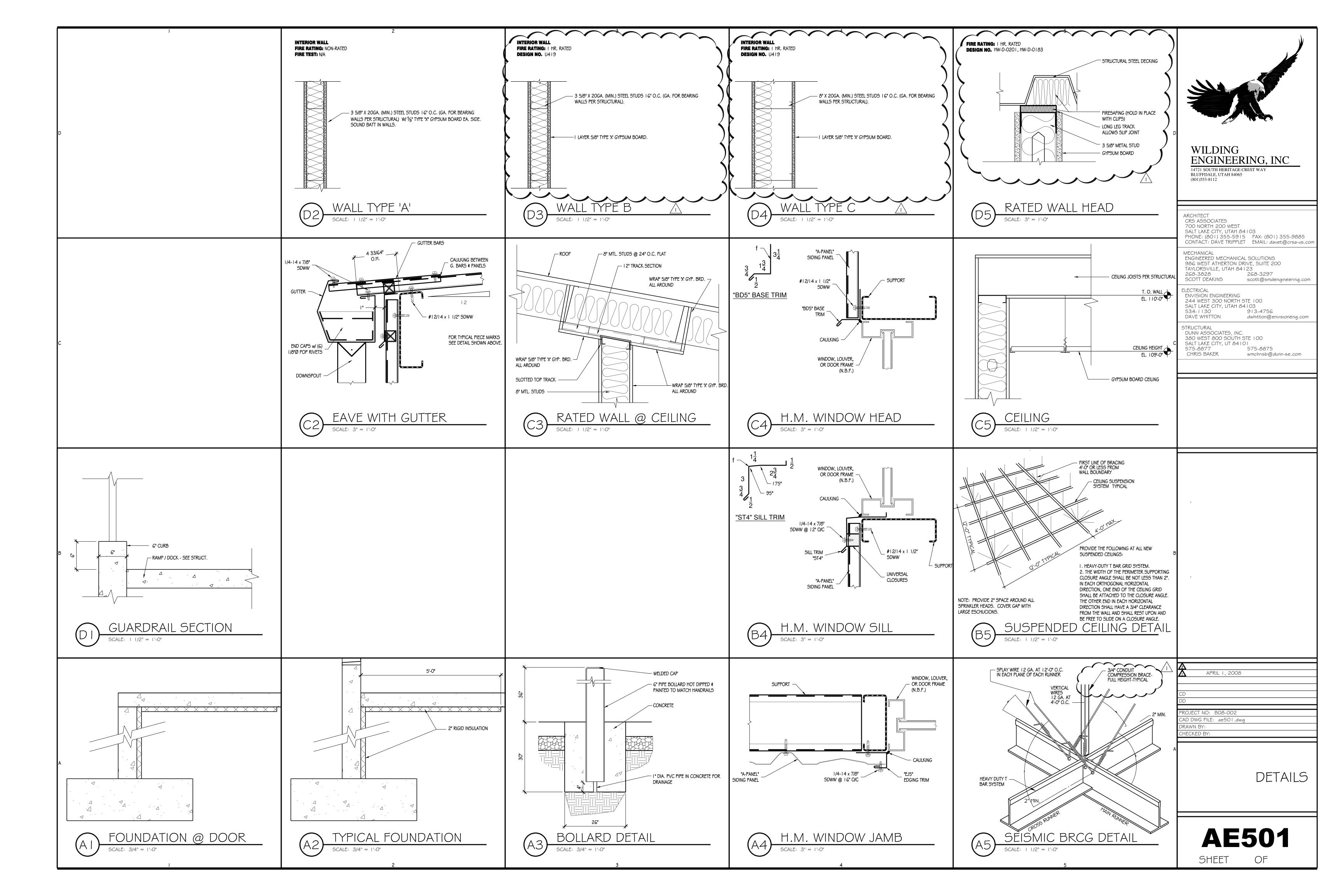












GENERAL STRUCTURAL NOTES

GENERAL

- 1. The structural notes are intended to complement the project specifications. Specific notes and details in the drawings shall govern over the structural notes and typical details.
- Typical details and sections shall apply where specific details are not shown.
 The contractor shall verify all site conditions and dimensions. If actual conditions differ from those shown in the contract drawings, the contractor shall immediately notify the architect/engineer before proceeding with the fabrication or construction of any effected elements.
- 4. Changes to these contract drawings may be made only by an authorized representative of Dunn Associates, Inc. Dunn Associates, Inc. shall not be held responsible or liable for any claims arising directly or indirectly from changes made without written authorization by an authorized representative of Dunn Associates, Inc.
- 5. Omissions or conflicts between the contract drawings and/or specifications shall be brought to the attention of the architect/engineer before proceeding with any work involved. In case of conflict, follow the most stringent requirement as directed by the architect/engineer at no additional cost to the owner.
- 6. The contractor shall submit a written request to the architect/engineer before proceeding with any changes, substitutions, or modifications. Any work done by the contractor before receiving written approval will be at the contractor's risk.
- 7. The contractor shall coordinate with all trades any items that are to be integrated into the structural system such as openings, penetrations, mechanical and electrical equipment, etc. Sizes and locations of mechanical and other equipment that differs from those shown on the contract drawings shall be reported to the architect/engineer.
- 8. The contractor shall be responsible for means, methods, techniques, sequences, and procedures in order to comply with the contract drawings and specifications. The contractor shall provide adequate shoring and bracing as required for the chosen method of erection. Shoring and bracing shall remain in place until final connections for the permanent members are completed. The building shall not be considered stable until all connections are completed. Walls shall not be considered self—supporting and shall be braced until the floor/roof system is completed.
- 9. Site observations by a field representative of Dunn Associates, Inc. shall not be construed as approval of construction, the procedures, nor special inspection.
- 10. Detailing and shop drawing production for structural elements will require information (including dimensions) contained in the architectural, structural and/or other consultants' drawings. The structural drawings shall be used in conjunction with the architectural and other consultant's drawings. Most dimensions and most non-structural elements such as elevations, depressions, slopes, mechanical housekeeping pads, etc. are not shown in the structural drawings. See the Architectural Drawings for dimensions, doors, windows, non-bearing interior and exterior walls, elevations, slopes, stairs, curbs, drains, recesses, depressions, railings, waterproofing, finishes, chamfers, kerfs, etc.
- 11. Review of shop drawing submittals by Dunn Associates, Inc. is for general compliance only and is not intended for approval. The shop drawing review shall not relieve the contractor from the responsibility of completing the project according to the contract documents.
- 12. Shop drawings made from reproductions of the structural drawings will be rejected unless the contractor signs a release agreement prior to the shop drawings being reviewed. The contractor may also obtain electronic files of the plan sheets after signing a release agreement. Electronic files of the detail sheets and schedule sheets will not be made available.
- 13. All work shall be done in accordance with OSHA requirements. Potential conflicts between these documents and OSHA requirements shall be brought to the attention of the structural engineer before proceeding with the work.
- 14. This set of structural drawings is not to be used for construction. They are based on estimated, not actual, column and wall loads. These drawings are solely intended for use as a coordination set. This set will be updated when actual loads are recieved from the prefabricated metal building designer/supplier/manufacturer.

BASIS OF DESIGN

1.	Governing Building Code	International Building Code 2006
2.	Roof Snow Load Per Prefab Building Designer 2.1. Ground Snow Load 2.2. Flat Roof Snow Load 2.3. Snow Exposure Factor 2.4. Snow Load Importance Factor 2.5. Thermal Factor	$P_{g} = 43 \text{ psf}$ $P_{f} = 30 \text{ psf}$ $C_{e} = 1.0$ $I_{S} = 1.0$ $C_{t} = 1.0$
3.	Wind Load Per Prefab Building Designer 3.1. Basic Wind Speed (3 Second Gust) 3.2. Wind Importance Factor 3.3. Wind Exposure 3.4. Internal Pressure Coefficient	90 mph 1.00 C ± 0.18
4.	Earthquake Design Data Per Prefab Building Designe 4.1. Occupancy Category 4.2. Seismic Importance Factor 4.3. Mapped Spectral Response Accelerations 4.3.1. Short Period Acceleration 4.3.2. 1—Second Acceleration 4.4. Site Class (Soil Profile) 4.5. Basic Seismic Force Resisting System 4.5.1. Per Prefabricated Metal Building Man 4.6. Seismic Design Category	I 1.0 $S_S = 1.398$ $S_1 = 0.593$ D

FOUNDATION

Soils Report by:	Wilding Engineering
Dated:	January 2008
Soil Bearing Pressure:	2000 psf on 30" compacted fill
Frost Protection:	30 inches minimum

4. Coefficient of Friction

5. The soils engineer shall review all excavations and fill placement prior to placing

EARTHWORK

- 1. Clearing: The entire building area shall be scraped to remove all topsoil, including all vegetation and debris.
- 2. Proof rolling: The natural undisturbed soil below all footings shall be proof rolled prior to placing concrete. Remove all soft spots and replace with compacted structural fill.
- 3. Compacted structural fill: All fill material shall be a well—graded granular material with a maximum size less than 2" and with not more than 15% passing a #200 sieve. It shall be compacted to 95% of the maximum laboratory density as determined by ASTM D 1557. All fill shall be tested. Compacted structural fill shall be placed in lifts not exceeding 9" in uncompacted thickness.
- 4. Consult the project specifications and soils report for further earthwork requirements. The soils engineer shall review all excavations and fill placement prior to placing concrete.

<u>CONCRETE</u>

ss noted otherwise:				
Normal Weight aggregates	ASTM	C 33		
Light Weight aggregates	ASTM	C 330		
Light Weight concrete shall not exceed	110 pcf (±	3 pcf)		
Fly Ash, Class F Pozzolan	, ,			
Reinforcing Steel				
General	ASTM	615 Grade	60 (6	0 ksi
Deformed Bar Anchors (DBA)	ASTM	A496	,	
Headed Stud Anchors (HSA)	ASTM	A108		
Anchor Bolts				
Per Prefabricated Metal Building I	Manufacturer	with ASTM	A563	heavy
hex nuts with ASTM F436 minimu	ım 5/16" thick	washers.		·
			C 260	(whe
	Normal Weight aggregates Light Weight aggregates Light Weight concrete shall not exceed Fly Ash, Class F Pozzolan Reinforcing Steel General Deformed Bar Anchors (DBA) Headed Stud Anchors (HSA) Anchor Bolts Per Prefabricated Metal Building hex nuts with ASTM F436 minimum	Normal Weight aggregates ASTM Light Weight aggregates ASTM Light Weight concrete shall not exceed 110 pcf (± Fly Ash, Class F Pozzolan ASTM Reinforcing Steel General ASTM Deformed Bar Anchors (DBA) ASTM Headed Stud Anchors (HSA) ASTM Anchor Bolts Per Prefabricated Metal Building Manufacturer hex nuts with ASTM F436 minimum 5/16" thick	Normal Weight aggregates Light Weight aggregates ASTM C 330 Light Weight concrete shall not exceed 110 pcf (± 3 pcf) Fly Ash, Class F Pozzolan Reinforcing Steel General ASTM 615 Grade Deformed Bar Anchors (DBA) Headed Stud Anchors (HSA) ASTM A496 Headed Stud Anchors (HSA) ASTM A108 Anchor Bolts Per Prefabricated Metal Building Manufacturer with ASTM hex nuts with ASTM F436 minimum 5/16" thick washers.	Normal Weight aggregates Light Weight aggregates ASTM C 330 Light Weight concrete shall not exceed 110 pcf (± 3 pcf) Fly Ash, Class F Pozzolan Reinforcing Steel General ASTM 615 Grade 60 (6 Deformed Bar Anchors (DBA) ASTM A496 Headed Stud Anchors (HSA) ASTM A108 Anchor Bolts Per Prefabricated Metal Building Manufacturer with ASTM A563

- 1.9. Admixtures: Air—entraining admixtures shall comply with ASTM C 260 (whe used). Calcium chloride shall not be added to the concrete mix.

 Unreinforced concrete slabs on grade may have calcium chloride not exceeding one percent.
- 1.10. Type II cement complying with ASTM C-150 shall be used for all concrete.

 1.11. The water/cement ratio for concrete 4000 psi and greater shall not
- exceed 0.50 (grout mixes are excluded).

 The slump of all concrete shall be limited to 4" unless plasticizers are
- 1.12. The slump of all concrete shall be limited to 4" unless plasticizers are used.
- 1.13. Provide air entraining as recommended by ACI 318.
- 1.14. Air entrainment shall be adjusted for the use of admixtures and fly ash.
- 1.15. Fly Ash shall be a maximum of 20% of the cementitious material.1.16. No aluminum conduit or product containing aluminum or any other
- material injurious to concrete shall be embedded in concrete.

 2. Compressive strengths of concrete at 28 days shall be as follows:

 2.1. Footings
 - 2.2. Interior Slabs on Grade
 2.3. Walls
 2.4. All Site Cast Concrete
 4000 psi
 4000 psi
 4000 psi
 4000 psi
- 3. The contractor shall be responsible for the design, detailing, care, placement and removal of all formwork and shores.

 3.1. Supporting forms and shoring shall not be removed until structural.
 - 3.1. Supporting forms and shoring shall not be removed until structural members have acquired sufficient strength to safely support their own weight and any construction load to which they may be subjected. In no case, however, shall forms and shoring be removed in less than 24 hours after concrete placement.
 - 3.2. Suspended slabs shall be re—supported after form removal until concrete reaches its 28—day specified compressive strength.
- 4. Reinforcement shall have the following concrete cover:

 4.1. Cast—in—place Concrete

 Clear Cover
 - 4.1.1. Cast—in—place concrete

 4.1.1. Cast against and permanently exposed to earth

 4.1.2. Formed concrete exposed to earth or weather:

 #6 thru #18 bars
 - #5 and smaller bars

 4.1.3. Concrete not exposed to weather or in contact with ground:

 Slabs, Walls, Joists; #11 bars and smaller

 Beams, Columns: Primary Reinforcement, Ties,

 Stirrups, Spirals

5. Construction Joints and Control Joints:

- 5.1. Provide a beveled 2" x 4" x intermediate keyway that shall be installed in all horizontal and vertical construction joints including between top of footing and foundation walls. In addition, all joints shall be intentionally roughened to a full amplitude of approximately \(\frac{1}{4} \)".
- 5.2. Control joints shall be installed in slabs on grade so the length to width ratio of the slab is no more than 1.25:1. Control joints shall be completed within 12 hours of concrete placement. Control joints may be installed by:
- 5.2.1. Saw cut with depth of $\frac{1}{4}$ the thickness of the slab
- 5.2.2. Tooled joints with depth of ¼ the thickness of the slab
 5.3. Install construction or control joints in slabs on grade at a spacing not to exceed 30 times the slab thickness in any direction, unless noted otherwise. Construction joints shall not exceed a distance of 125'-0" on center in any direction.

6. Construction

- Use chairs or other support devices recommended by the CRSI to support bar and tie reinforcement bars and WWF prior to placing concrete. WWF shall be continuously supported at 36" on center maximum. Reinforcing steel for slabs on grade shall be adequately supported on precast concrete units. Lifting the reinforcing off the grade during placement of concrete is not permitted.
- 6.2. Contractor shall coordinate placement of all openings, curbs, dowels, sleeves, conduits, bolts, inserts and other embedded items prior to concrete placement.
- 6.3. All embeds and dowels shall be securely tied to formwork or to adjacent reinforcing prior to the placement of concrete.
- 6.4. No pipes, ducts, sleeves, etc. shall be placed in structural concrete unless specifically detailed or approved by the structural engineer.

 Penetrations through walls when approved shall be built into the wall prior to concrete placement. Penetrations will not be allowed in footings or grade beams unless detailed. Piping shall be routed around these elements and footings stepped to avoid piping.
- 6.5. Reinforcing bars shall not be welded unless specifically shown on drawings. In such cases, use only AWS standards. Do not substitute reinforcing bars for DBAs or HSAs.
- 6.6. Top of concrete columns shall be flush $(\pm \frac{1}{4})$ with bottom of supported cast—in—place members.

7. Detailing:

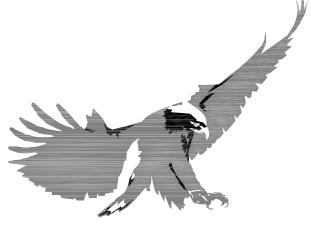
- #5 = 36" #8 = 72"
 7.1.1. Do not splice stirrups and ties.
- 7.1.2. Do not splice vertical bars in retaining walls unless specifically shown.
- 7.2. At joints provide reinforcing dowels to match the member reinforcing, unless noted otherwise.
- 7.3. At all discontinuous control or construction slab on grade joints, provide (2) #4 x 48".
- 7.4. Provide corner bars at intersecting wall corners using the same bar size and spacing as the horizontal wall reinforcing.
- 7.5. All vertical reinforcing shall be doweled to footings, or to the structure below with the same size and spacing as the vertical reinforcing for the element above. Dowels extending into footings shall terminate with a 90° standard hook and shall extend to within 4" of the bottom of the footing. Footing dowels (#8 bars and smaller) with hooks need not extend more than 20" into footings.
- 7.6. In concrete shearwalls, the horizontal wall reinforcing shall terminate at ends of walls and openings into the far end of the jamb column with a 90° standard hook plus a 6 bar diameter extension. Horizontal wall reinforcing shall be continuous through construction and control joints.
- 7.7. See details for reinforcing around miscellaneous openings (8" to 36" wide). For openings wider than 36", contact the engineer. All recesses that interrupt reinforcing shall be reinforced the same as an opening.

<u>EPOXY</u>

- 1. Epoxy in concrete shall be "HIT RE 500 SD" by Hilti Corporation, "Epcon Injection System" by Ramset/Redhead, "Power-Fast, Standard Set" by Powers, or approved equal.
- 2. All drilled holes shall be sized per the manufacturers' recommendations.
- 3. After drilling the proper size hole, clean the walls and bottom of the hole of all dust and debris using a nylon brush in conjunction with oil free compressed air. The hole shall be free of dust, debris and standing water.
- 4. Follow all manufacturers' recommendations for epoxy installation.

PREFABRICATED METAL BUILDINGS

- 1. Design, Fabrication, and Erection: All prefabricated elements with their associated hardware shall comply with the latest requirements of the IBC, AISC, SDI, and AISI.
- 2. Design Calculations: Prior to fabrication and installation of anchor bolts, the metal building supplier shall submit complete shop drawings and calculations including reactions bearing the stamp of a registered Professional Engineer, licensed in the same state as the building is to be built.
- 3. Field Modifications: Do not modify any structural element of the prefabricated metal building without written consent and direction from the manufacturer. Send copies of the consent and modifications to the architect/engineer.
- 4. Anchor bolts and baseplate connections of the prefabricated columns to the foundations shall be of the number, material, diameter, and layout shown in the drawings prepared by the prefabricated metal building designer/supplier/manufacturer. The depth of embedment for the anchor bolts and any other modifications required are shown in these structural contract drawings.
- 5. Anchor Bolts for the attachment of miscellaneous framing members to masonry walls shall be of the number, material, diameter, and layout shown in the drawings prepared by the prefabricated metal building designer/supplier/manufacturer. The depth of embedment for the anchor bolts is shown in these structural contract drawings.
- 6. Disclaimer: The Foundation Plan and associated foundation details are based solely upon estimated column and wall loads. Until actual loads are recieved by Dunn Associates, Inc., from the prefabricated metal building designer/supplier/manufacturer, these drawings are not to be used for construction.



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UTAH DIVISION OF
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AND MANAGEMENT (DFCM)
4110 STATE OFFICE BUILDING
SALT LAKE CITY, UTAH 84114

O1/14/08 RELEASED TO CL
O3/25/08 PLAN REVIEW

PROJECT NO: 27353

DESIGNED BY: TODD MAKI
CHECKED BY: W. CHRIS BARKER
DRAWN BY: BRETT ROBERTS

GENERAL STRUCTURAL NOTES

S101

SHEET

Final Review Set February 2, 2008

NOTE: THESE STRUCTURAL DRAWINGS ARE BASED ON ARCHITECTURAL DRAWINGS DATED 01.21.2008

DIMENSIONS AND ELEVATIONS, AS THEY RELATE TO THE BUILDING IN GENERAL, i.e. GRID TO GRID DIMENSIONS OR DECK BEARING ELEVATIONS, ARE SUPPLIED BY THE ARCHITECT. THEY ARE PROVIDED ON THE STRUCTURAL PLANS AND DETAILS FOR THE CONVENIENCE OF THE CONTRACTOR. VERIFY DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.



GENERAL STRUCTURAL NOTES

QUALITY ASSURANCE PLAN/SPECIAL INSPECTION REQUIREMENTS

- Special inspection and testing as required by the IBC shall be provided by an independent agency employed by the owner unless waived by the building official. The contractor shall coordinate and cooperate with the required inspections/tests as indicated below, referring to the IBC section indicated as appropriate. Special inspection reports from the inspector shall be sent to the engineer and building official, bringing any discrepancies to the contractor's immediate attention. Any uncorrected discrepancies shall be brought to the attention of the engineer and building official prior to completion of that phase of the work. A final report documenting required special inspections and corrections of any discrepancies shall be provided (1704.1.2).
 Section 1704: Special Inspections
- 2.1. Concrete (1704.4): Concrete construction shall be special inspected according to Table 1704.4, except in buildings 3 stories or less where structural design of continuous concrete footings is based on compressive strength, f'c, no greater than 2500 psi. In the absence of sufficient data or documentation showing conformance to quality standards for materials, testing shall be required to determine material properties under the direction of the building official according to Chapter 3 of ACI 318.
- 2.2. Soils (1704.7): Existing site soil conditions, fill placement and procedure and load—bearing requirements shall be special inspected to verify compliance with the approved soils report and Table 1704.7. Where total depth of controlled fill is 12" or less, special inspection is not required during fill placement.
- 2.3. Special Cases (1704.13): Special inspect all post—installed anchors per ICC report.

LEGEND OF MARKS AND ABBREVIATIONS

<u> JEND OF M</u>	ARKS AND ABBREVIATIONS		
AB	Anchor Bolt	LB	Pounds (#)
ALT	Alternate	LD	roundo (_{II})
ARCH	Architect	MAX	Maximum
AROH	Alchitoct		
DLDC	D.:14'	MECH	Mechanical
BLDG	Building	MFR	Manufacturer
BM	Beam	MIN	Minimum
BOTT	Bottom	MISC	Miscellaneous
BRDG	Bridging	MTL	Metal
BRG	Bearing		
BTWN	Between	NS	Near Side
		NTS	Not To Scale
CGS	Center of Gravity of Strand	NIO	Not 10 Scale
CJ	Control Joint		On Contor
		00	On Center
CL	Center Line	OPNG	Opening
COL	Column	OPP	Opposite
CONC	Concrete		
CONT	Continuous	PCF	Pounds per Cubic Foot
COORD	Coordinate	PEN	Penetrate or Penetration
CTR	Center	PERP	Perpendicular
		PL PL	Plate
DB	Deck Bearing	PLF	
DBA	Deformed Bar Anchor		Pounds per Lineal Foot
		PREFAB	Prefabricated
DBL	Double	PSF	Pounds per Square Foot
DET	Detail	PSI	Pounds per Square Inch
DIA	Diameter	PT	Post Tension
DIM	Dimension		
DWG	Drawing	REINF	Reinforce
	-	REQD	Required
(E)	Existing	4-	
EA	Each	SAD	See Architectural Drawings
EF	Each Face	SCHED	Schedule
EL	Elevation	SIM	Similar
ELEC	Electrical	SOG	Slab on Grade
ENGR	Engineer	STD	Standard
EQ	Equal	STL	Steel
EQUIP	Equipment	STRUCT	Structural
EQ SP	Equally Spaced		
EW	Each Way	T&B	Top and Bottom
EJ	Expansion Joint	TEMP	Temperature
EXT	Exterior	THRU	Through
LAT	Exterior	TOC	· ·
EL D	Г		Top of Concrete
FLR	Floor	TOD	Top of Deck
FND	Foundation	TOF	Top of Footing
FS	Far Side	TOS	Top of Steel
FTG	Footing	TOW	Top of Wall
		TYP	Typical
ga	Gage		, ,
GALV	Galvanized	UNO	Unless Noted Otherwise
GSN	General Structural Notes	0110	omoco motod otnormoc
OSIN	General Structural Notes	VERT	Vertical
ЦОПІТ	Horizontal	VLI\I	v टा संस्था
HORIZ	Horizontal	1	
HSA	Headed Stud Anchor	W/	With
		WWR	Welded Wire Reinforcemer
ICB0	International Conference	WP	Working Point
	Of Building Officials		J
IRC	International Building Code		

International Building Code

Kip(S) = 1000 Pounds

Kips Per Lineal Foot

Kips Per Square Foot

DEFERRED SUBMITTALS

1. Items requiring deferred submittals that are listed below are to be designed and fabricated by the manufacturer according to specifications given in structural and architectural drawings.

1.1. Concrete Mix Designs (by concrete supplier)

2. These deferred submittals shall first be submitted to the project architect and/or engineer for review and coordination. Upon completion of the architect/engineer review, a submittal to the city shall be made (for city review and approval). The city submittal shall include a letter stating that the architect/engineer review has been performed and that the plans and calculations for the deferred submittal items are found to be acceptable (e.g., with regard to geometry, load conditions, etc.) with no exceptions.

3. The final submittal shall be signed and sealed by a Professional Engineer licensed in the state in which construction will occur and shall be available at the jobsite throughout construction.

Final Review Set February 2, 2008

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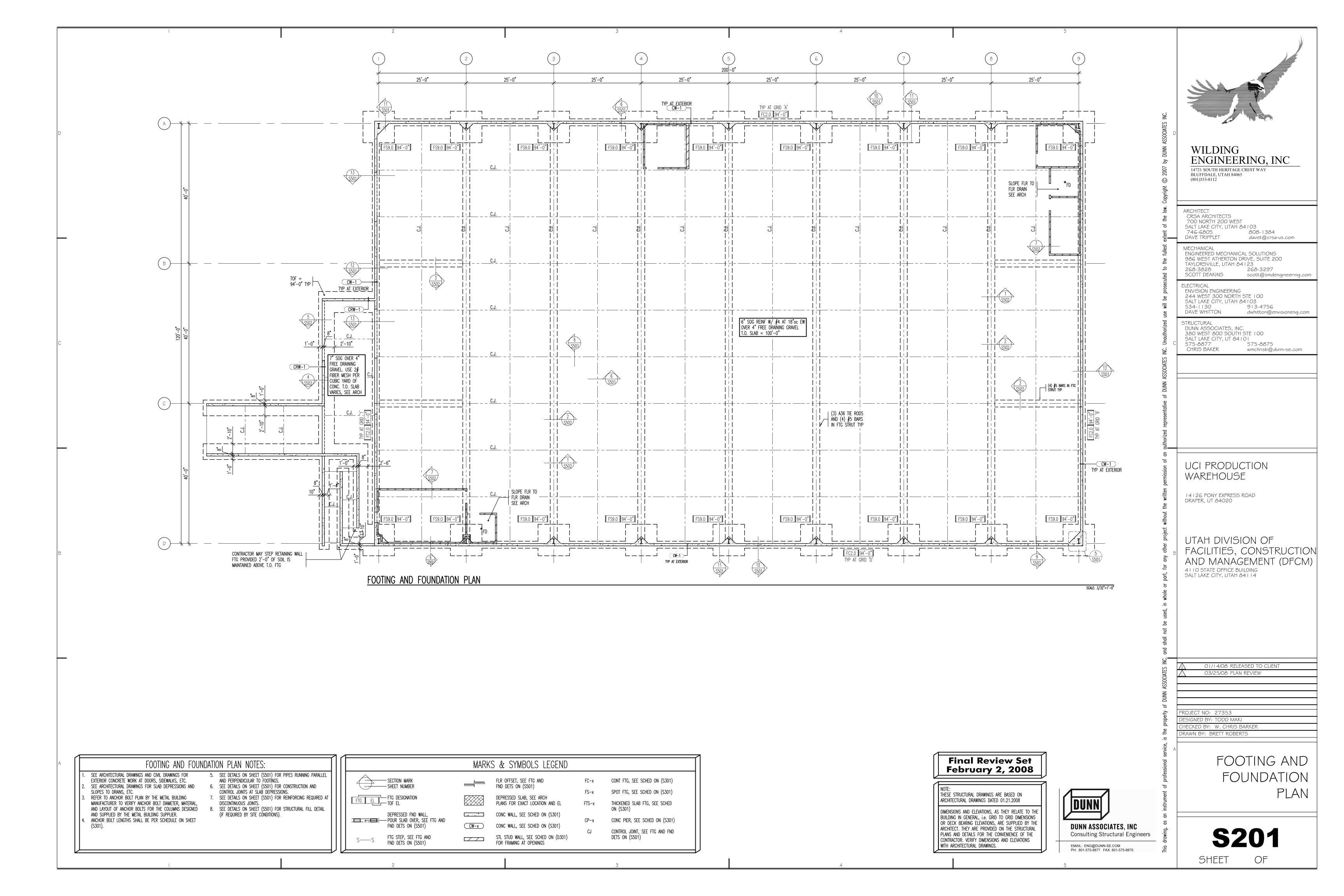
DESIGNED BY: TODD MAKI

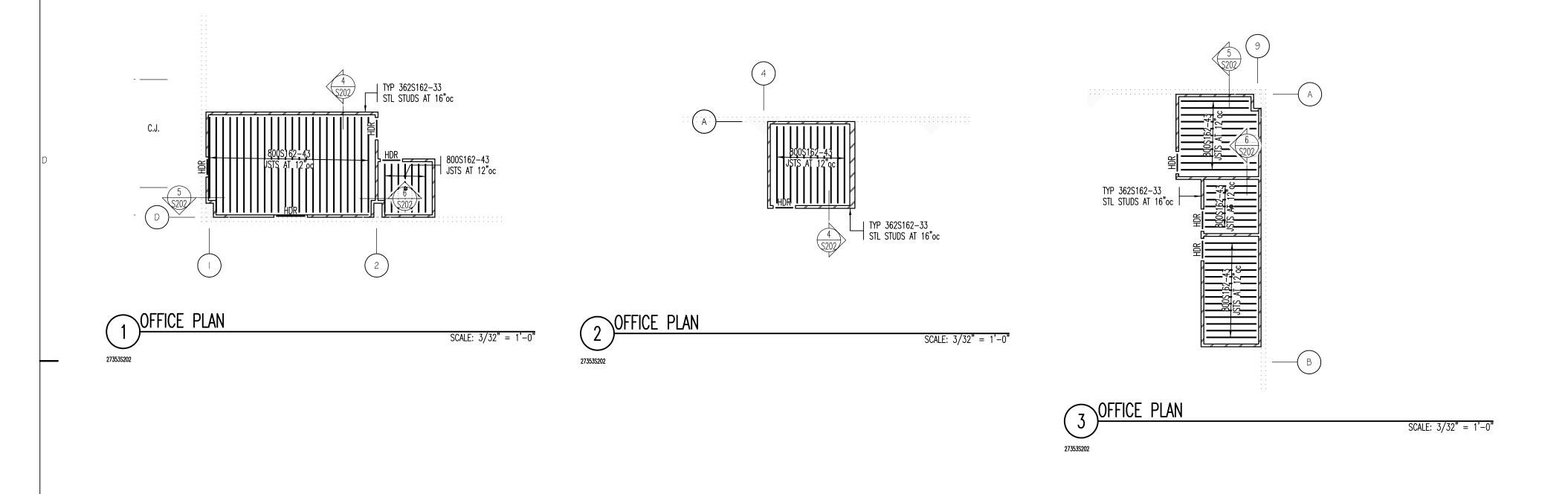
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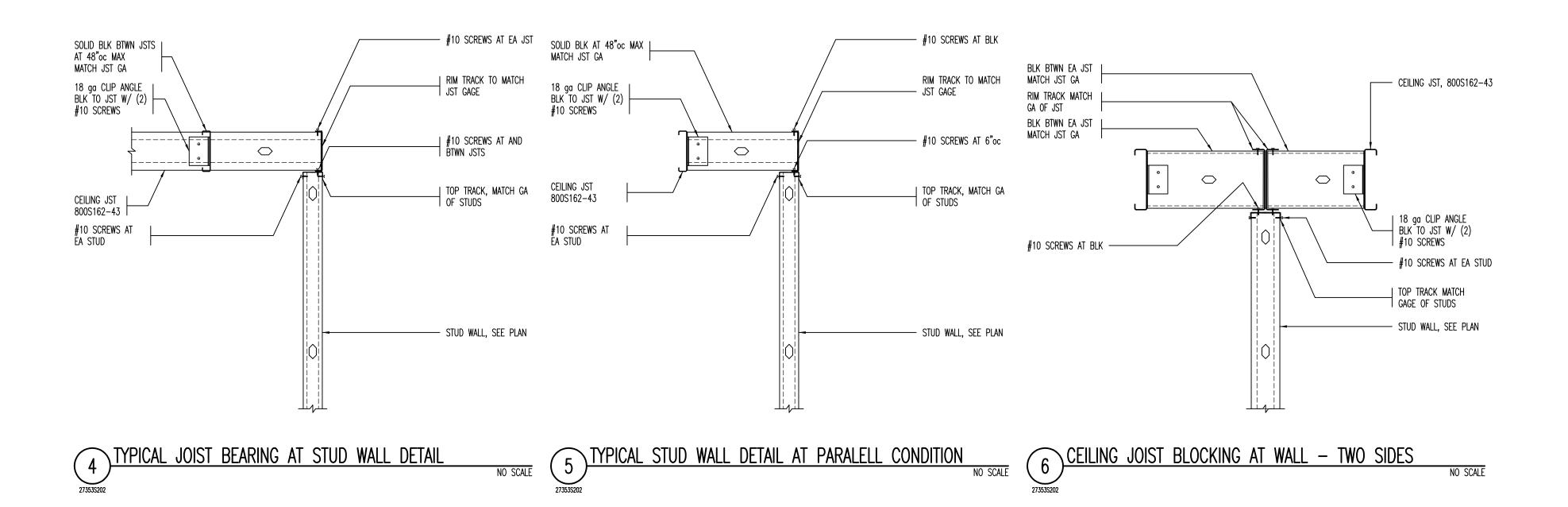
DRAWN BY: BRETT ROBERTS

GENERAL STRUCTURAL NOTES

\$102SHEET OF









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01/14/08 RELEASED TO CLIENT 03/25/08 PLAN REVIEW

PROJECT NO: 27353

DESIGNED BY: TODD MAKI

CHECKED BY: W. CHRIS BARKER

DRAWN BY: BRETT ROBERTS

MEZZANINE

FRAMING PLAN AND DETAILS

\$202SHEET OF

Final Review Set February 2, 2008

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	CONCRETE FOOTING SCHEDULE											
					REINFO	RCING CROS	SWISE		REINFORCING LENGTHWISE			
MARK	WIDTH	LENGTH	DEPTH	NO	SIZE	LENGTH	SPACING	N0	SIZE	LENGTH	SPACING	REMARKS
FC1.5	1'-6"	CONT.	12"	-	-	-	-	2	#4	CONT.	EQ.	
FC2.0	2'-0"	CONT.	12"	_	_	ı	-	3	#4	CONT.	EQ.	
FS3.0	3'-0"	3'-0"	12"	3	# 5	2'-6"	EQ.	3	# 5	2'-6"	EQ.	
FS3.5	3'-6"	3'-6"	12"	3	# 5	3'-0"	EQ.	3	# 5	3'-0"	EQ.	
FS4.0	4'-0"	4'-0"	12"	4	# 5	3'-6"	EQ.	4	# 5	3'-6"	EQ.	
FS4.5	4'-6"	4'-6"	12"	4	# 5	4'-0"	EQ.	4	# 5	4'-0"	EQ.	
FS5.0	5'-0"	5'-0"	12"	5	# 5	4'-6"	EQ.	5	# 5	4'-6"	EQ.	
FS5.5	5'-6"	5'-6"	12"	5	# 5	5'-0"	EQ.	5	# 5	5'-0"	EQ.	
FS6.0	6'-0"	6'-0"	12"	6	# 5	5'-6"	EQ.	6	# 5	5'-6"	EQ.	
FS6.5	6'-6"	6'-6"	13"	6	# 5	6'-0"	EQ.	6	# 5	6'-0"	EQ.	
FS7.0	7'-0"	7'-0"	13"	7	# 5	6'-6"	EQ.	7	# 5	6'-6"	EQ.	
FS7.5	7'-6"	7'-6"	14"	8	# 5	7'-0"	EQ.	8	# 5	7'-0"	EQ.	
FS8.0	8'-0"	8'-0"	15"	6	#6	7'-6"	EQ.	6	#6	7'-6"	EQ.	
FS8.5	8'-6"	8'-6"	16"	7	#6	8'-0"	EQ.	7	#6	8'-0"	EQ.	
FS9.0	9'-0"	9'-0"	17"	8	#6	8'-6"	EQ.	8	#6	8'-6"	EQ.	

CONCRETE FOOTING NOTES:

- 1. PLACE ALL FOOTING REINFORCING IN BOTTOM OF FOOTING WITH 3" CLEAR CONCRETE COVER, UNLESS NOTED OTHERWISE. TOP REINFORCING, WHERE SPECIFIED, SHALL BE PLACED IN THE TOP OF THE FOOTING WITH 2" MINIMUM CONCRETE COVER.
- IF FOOTINGS ARE EARTH FORMED, FOOTING WIDTH AND LENGTH SHALL BE BE 6" WIDER AND LONGER THAN SCHEDULED.
- 4. SEE GENERAL STRUCTURAL NOTES FOR ALL OTHER REQUIREMENTS.

1. "V" BARS SHALL NOT BE SPLICED BELOW MID-HEIGHT OF WALL.

(2) #5 CONT TOP & BOT

12" OF FREE

"C" BARS ——

2x4 CONT KEYWAY

(3) #5 x CONT

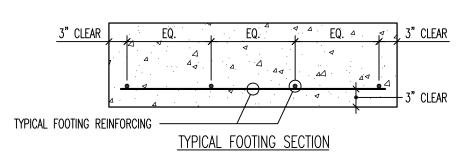
CONCRETE RETAINING WALL SCHEDULE

DRAINING GRAVEL

#4 AT 12" O.C. E.W. —

CONC SLAB ON GRADE |____ SEE PLAN

5. NOT ALL FOOTINGS ARE USED, SEE FOUNDATION PLAN FOR FOOTING MARKS. 6. RUN CONTINUOUS BARS IN 'FC' FOOTING THROUGH INTERSECTED 'FS' FOOTINGS.





CRW-1 \ <6'-0" | See Plan | See Plan | 8"/8" | 12" | (1) #5 | 16" | (1) #4 | 16" | (1) #5 | 16" | (1) #5 | 16"

2" CLEAR

2. FOR WALLS WITH "HT" OF 9'-0" AND GREATER. ONE HALF OF THE "V" BARS CAN BE DISCONTINUED FROM MID-HEIGHT

CONCRETE RETAINING WALL SCHEDULE

"V" BARS "H" BARS

"BW" "A"

"C" BARS "D" BARS

"T" BARS

CONCRETE RETAINING WALL

"H" BARS

2"Ø WEEP HOLE AT 10'-0"cc. MAXIMUM

I "D" BARS WITH STANDARD

HOOK EACH END.

EXTEND 2'-0" MINIMUM

CONCRETE WALL SCHEDULE WALL TYPE COMMENTS THICKNESS MARK HORIZONTAL TOP AND BOTTOM VERTICAL (1) #5 AT 16"cc. CW-1 (1) #4 AT 10"cc. (1) #5

HORIZONTAL REINFORCING

#4 BARS AT 16"cc. #4 BARS AT 12"cc. #5 BARS AT 15"cc.

#4 BARS AT 16"cc. EACH FACE

NO SCALE

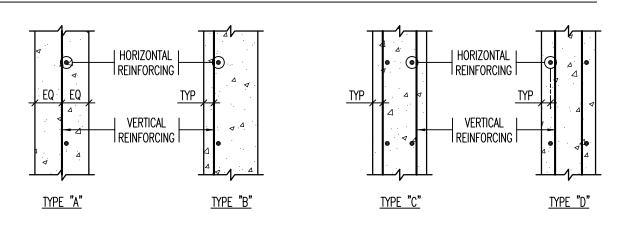
CONCRETE WALL NOTES:

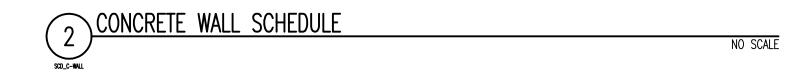
1. SEE GENERAL STRUCTURAL NOTES FOR REQUIREMENTS NOT NOTED IN SCHEDULE. 2. CONCRETE WALLS NOT DESIGNATED ON THE PLANS SHALL BE REINFORCED AS FOLLOWS:

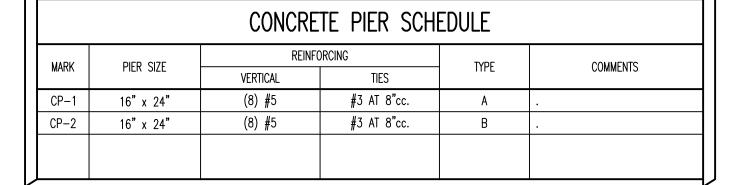
IALLS NOT	DESIGNATED	UN	וחב ו	-LAN2	SHALL	DL	KEINFUKCED	AS	ΓU
<u>HICKNESS</u>				<u>VER</u> 1	TICAL R	EINF	ORCING		
6" 8" 10" 12"			#4	#4 #4 BARS	BARS BARS BARS AT 18	AT AT AT "cc.	18"cc. 18"cc. 16"cc. EACH FACE		

- a. PLACE STEEL IN THE CENTER OF THE WALL (EXCEPT TYPE 'B' AND RETAINING WALLS). WALLS THICKER THAN 10" SHALL HAVE TWO CURTAINS OF REINFORCEMENT (PLACED NEAR EACH FACE OF THE WALL), UNLESS NOTED OTHERWISE ON THE
- STRUCTURAL DRAWINGS. b. FOR WALLS 10" AND THINNER (ONE) #7 (OR (2) #5) x CONTINUOUS HORIZONTAL BAR SHALL BE PLACED AT THE BOTTOM OF THE WALL (NEAR THE FOOTING), AT EACH FLOOR LEVEL, AT THE ROOF LEVEL, AND AT THE TOP OF THE WALL. FOR WALLS THICKER THAN 10" (2) #5 BARS SHALL BE PLACED AT THESE LOCATIONS.
- 3. WALLS SHALL BE SHORED UNTIL THEY ARE TIED INTO THE FLOOR SLAB.

WALL REINFORCEMENT PLACEMENT TYPES:

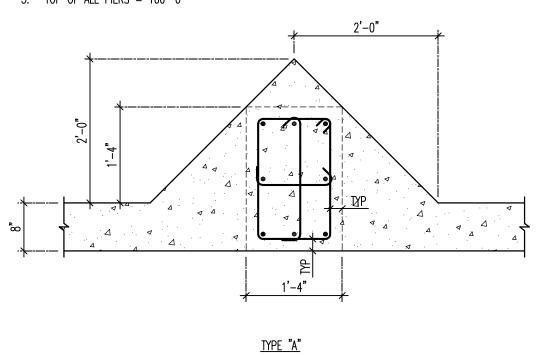


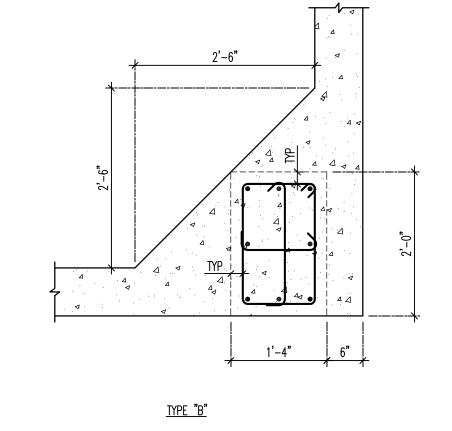




CONCRETE PIER NOTES:

- 1. INSTALL (3) SETS OF TIES AT 3"cc. AT TOP OF ALL PIERS (U.N.O.). 2. CONFIGURATION OF ALL PIERS MAY BE ADJUSTED FOR BASE PLATE
- CONFIGURATIONS OF PREFAB COLUMNS. 3. TOP OF ALL PIERS = 100'-0"





<u>CONCRETE PIER SCHEDULE</u>

NO SCALE

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	JINUCTUNAL	
	DUNN ASSOCIATES, IN	NC.
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С	575-8877	575-8875
	CHRIS BAKER	wmchrisb@dunn-se.com

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14126 PONY EXPRESS ROAD DRAPER, UT 84020

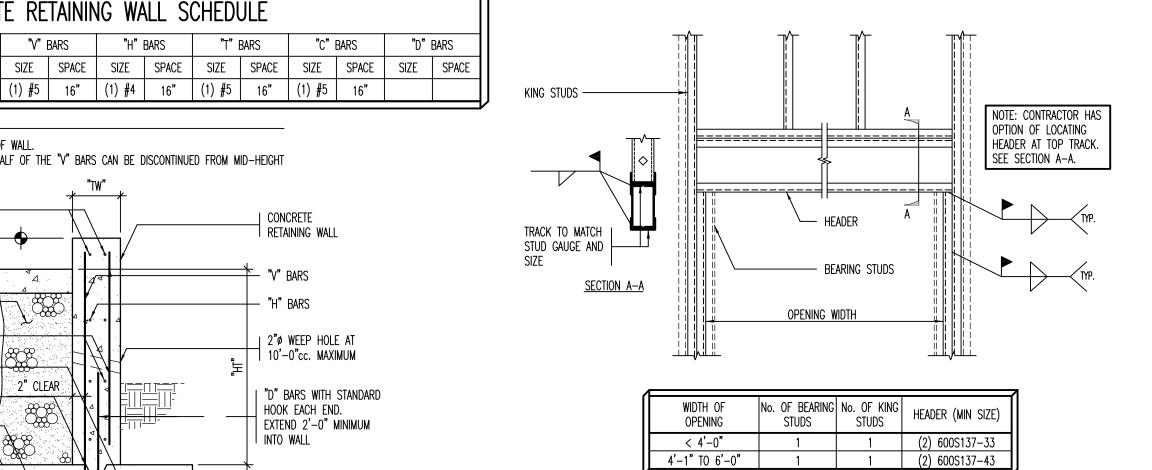
UTAH DIVISION OF FACILITIES, CONSTRUCTION AND MANAGEMENT (DFCM) 4110 STATE OFFICE BUILDING SALT LAKE CITY, UTAH 84114

01/14/08	RELEASED TO CLIENT
03/25/08	PLAN REVIEW

PROJECT NO: 27353 DESIGNED BY: TODD MAKI CHECKED BY: W. CHRIS BARKER DRAWN BY: BRETT ROBERTS

SCHEDULES

S301 SHEET



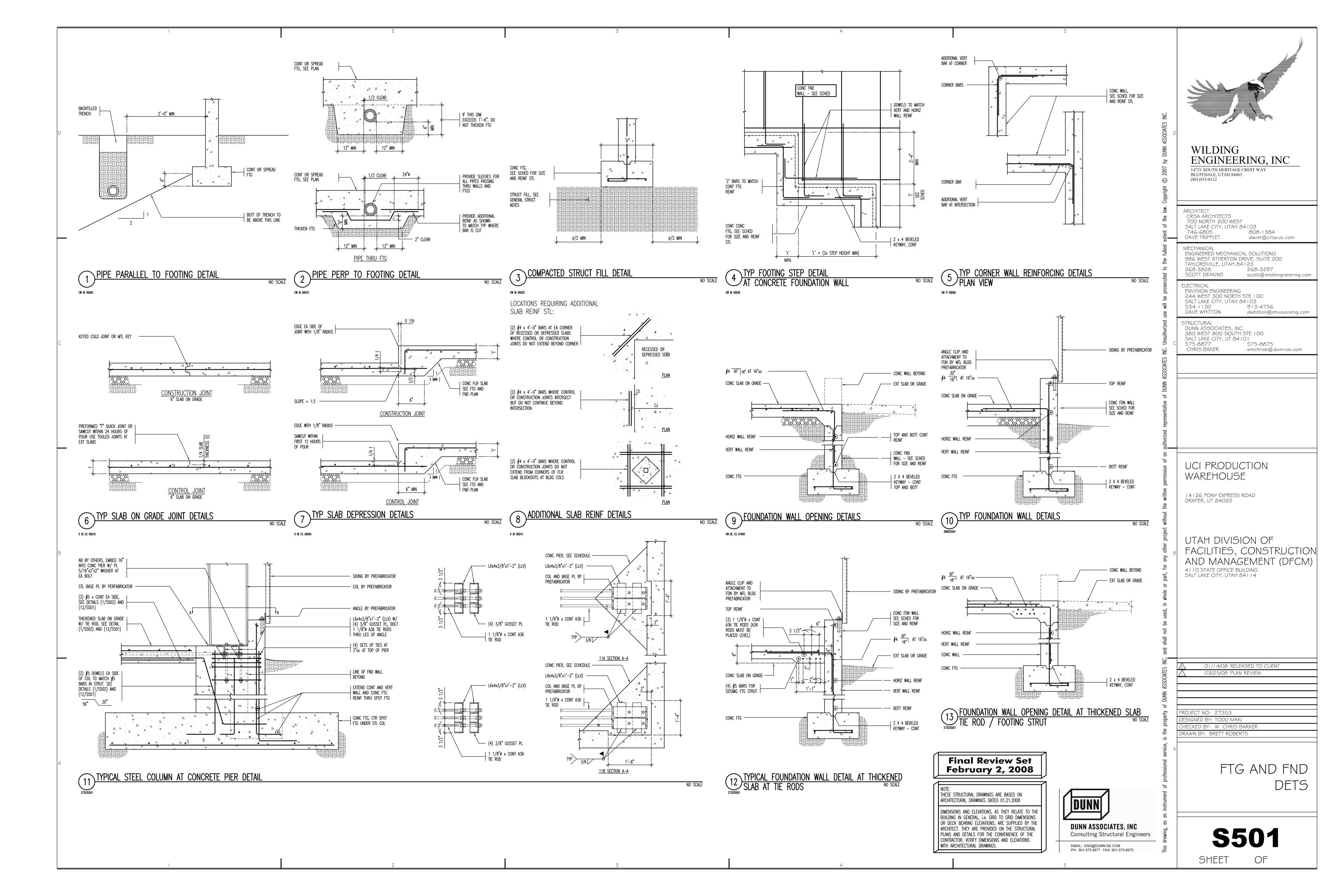
5 METAL STUD HEADER SCHEDULE

Final Review Set February 2, 2008

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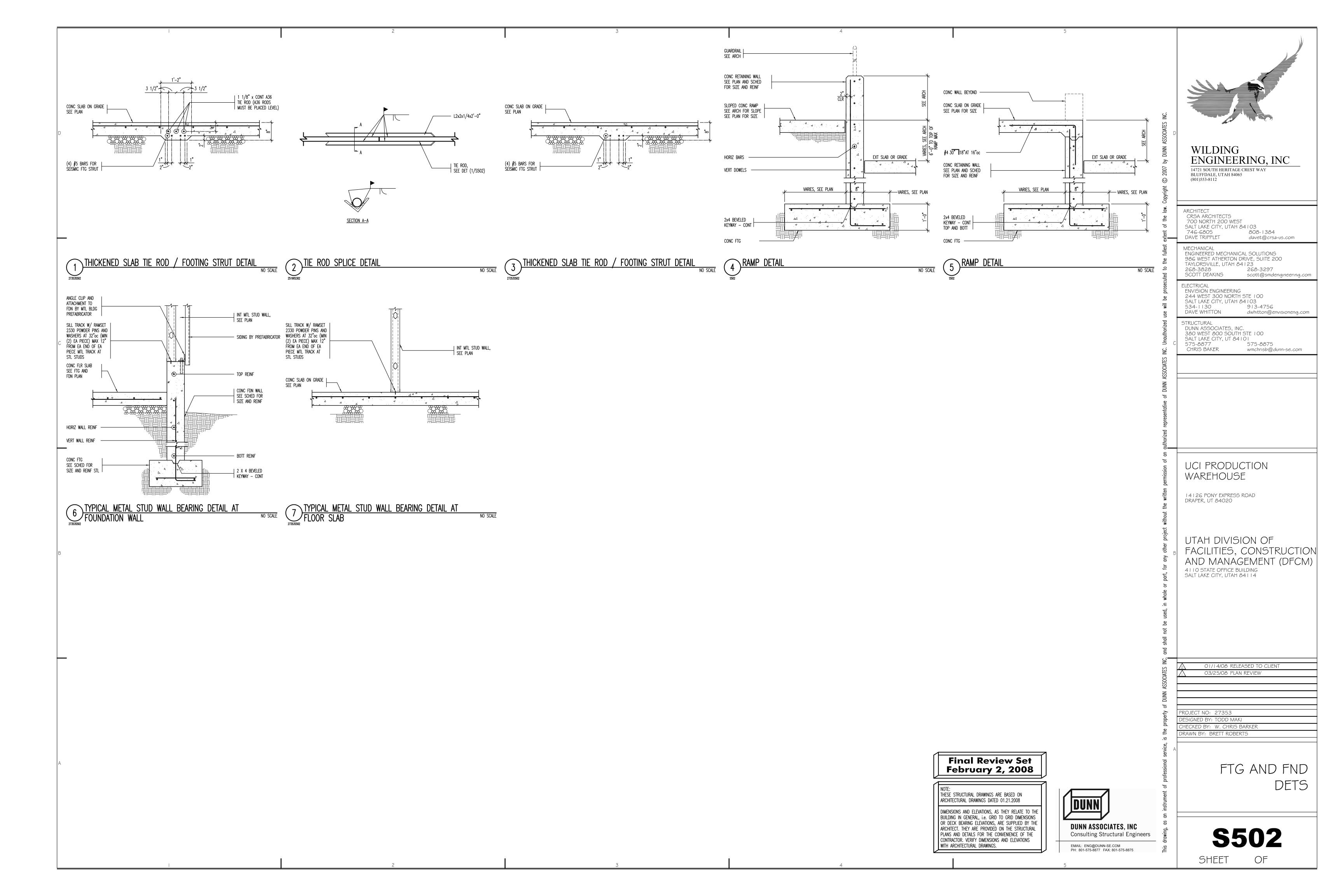


		ABB	REVIATIONS				MECHANİCAL	LEGEND		PROJECT NOTES
Ø	ROUND, DIAMETER, PHASE ACRYLONITRILE—BUTADIENE—STYRENE,	EWT	ENTERING WATER TEMPERATURE	OZ	OUNCE					1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH,
ABS	ABSOLUTE	EXH	EXHAUST	Р	PUMP PRESSURE DROP/DIFFERENCE	BALL VALVE	——ф—	DUCT SIZE, (1ST FIGURE, SIDE SHOWN)	; 24/12	2006 INTERNATIONAL BUILDING CODE, 2006 INTERNATIONAL MECHANICAL CODE, 2006 INTERNATIONAL PLUMBING CODE,
ACCU A/C	AIR COOLED CONDENSING UNIT AIR CONDITIONING	EXP EXT	EXPANSION EXTERIOR	PE PE	POLYETHYLENE		, F.	2ND FIGURE, OTHER SIDE)		2006 INTERNATIONAL FUEL GAS CODE, AND 2006
AD	ACCESS DOOR, AREA DRAIN	F	FAHRENHEIT	PEX	CROSS-LINKED POLYETHYLENE	BUTTERFLY VALVE	———	DIRECTION OF FLOW	-	INTERNATIONAL ENERGY CODE, INCLUDING STATE AND LOCAL AMENDMENTS, SUBJECT TO AUTHORITY HAVING JURISDICTION
ADA	AMERICAN DISABILITIES ACT AIR FOIL, AIR FILTER	FC FCO	FLEXIBLE CONNECTION, FORWARD CURVED FLOOR CLEAN OUT	PF PH	PRE-FILTER PHASE	GATE VALVE	─ ─ ✓			INTERPRETATION.
AFF	ABOVE FINISH FLOOR	FCU	FAN COIL UNIT	PIV	POST INDICATOR VALVE	- ANGLE GATE VALVE, PLAN VIEW	 &	LINED DUCT	24/12	2. CLOSELY COORDINATE NEW MECHANICAL AND PLUMBING
AHU ALT	AIR HANDLING UNIT ALTITUDE, ALTERNATE	FD FDC	FLOOR DRAIN, FIRE DAMPER FIRE DEPARTMENT CONNECTION	PLMB POC	PLUMBING POINT OF CONNECTION	ANGLE GATE VALVE, FLAN VIEW			l	CONSTRUCTION WITH ALL MECHANICAL, ELECTRICAL, ARCHITECTURAL AND STRUCTURAL MEMBERS. DUCTWORK
AMB	AMBIENT	FF	FINISH FLOOR, FINAL FILTER	POL	PETROLEUM, OIL, AND	GLOBE VALVE	—— — ——	HIDDEN DUCT	(24/12)	AND PIPE ROUTING IS APPROXIMATE, DIAGRAMMATIC AND IS NOT TO BE SCALED. PROVIDE ALTERNATE ROUTING,
AMP	AMPERE (AMP, AMPS)	FL	FLOW LINE	PRS	LUBRICANTS PRESSURE REDUCING STATION	- PLUG VALVE	——, ⊅ ——		<u></u> Н	OFFSETS AND TRANSITIONS AS REQUIRED FOR
AP	ACCESS PANEL	FLEX	FLEXIBLE	PRV	PRESSURE REDUCING VALVE		 阿	WYE W/45° ENTRY	}	COORDINATION OF ALL WORK WITHOUT ADDITIONAL COST.
APD ARCH	AIR PRESSURE DROP ARCHITECT	FO FP	FLAT OVAL FIRE PROTECTION	PSF PSI	POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH	3—WAY VALVE	— " ——		<u> </u>	3. DO NOT SHUT-OFF/PUT OUT SERVICE ANY SYSTEMS/SERVICES WITHOUT FIRST COORDINATING ALL
AS	AIR SEPARATOR	FPM	FEET PER MINUTE	PTAC	PACKAGED TERMINAL AIR CONDITIONER	NON-RISING STEM/OS&Y VALVE ACTUATOR	т †	TEE W/45° ENTRY	}	DOWNTIME WITH THE OWNER'S PERSONNEL.
AV	ACID VENT, AIR VENT	FS	FLOOR SINK	PVC	POLYVINYL CHLORIDE THERMAL RESISTANCE,	<u> </u>				4. PROVIDE SEISMIC RESTRAINT FOR ALL MECHANICAL AND
B	BOILER	FSD	FIRE SMOKE DAMPER	R	RANKINE, RETURN	LEVER VALVE ACTUATOR	— <u>(</u>	ELBOW W/TURNING VANES	* / / 	PLUMBING EQUIPMENT AND PIPING IN ACCORDANCE WITH
BAL BAS	BALANCE BUILDING AUTOMATION SYSTEM	FSTAT FT	FREEZESTAT FEET	RA RAD	RETURN AIR RADIUS	ELECTRONIC/PNEUMATIC VALVE ACTUATOR	M P	UELION ELEV DUOT		2006 IBC, IMC, AND IPC. SEISMIC DESIGN CATEGORY "D", SITE CLASS "D", SD1=0.593, SDS=1.398, AND SEISMIC
BBR	BASEBOARD RADIATOR	FTR	FIN TUBE RADIATION	RCP	RADIANT CEILING PANEL		\$ \(\rangle	HELICAL FLEX DUCT		OCCUPANCY CATEGORY I.
BDD BFP	BACKDRAFT DAMPER BACKFLOW PREVENTER	FURN FV	FURNACE, FURNISH, FURNITURE FACE VELOCITY	RD RECIRC	ROOF DRAIN RECIRCULAT(E),(OR),(ING)	SOLENOID/DIAPHRAGM VALVE ACTUATOR	T T	SUPPLY DUCT SECTION UP/DOWN	M 24/12 N	5. CONTRACTOR SHALL PROVIDE 1 YEAR STANDARD WARRANTY.
BFV	BUTTERFLY VALVE	G	GAUGE, NATURAL GAS	REF	REFRIGERAT(OR),(ION)	CHECK VALVE		SUPPLI DUCT SECTION OP/DOWN	24/12	6. SUBMIT ALL VALVES, FITTINGS, PIPE MATERIALS, INSULATION,
BHP BI	BRAKE HORSEPOWER BACKWARD INCLINED	GA GAL	GAGE GALLON	REQ'D RF	REQUIRED RETURN FAN	SPRING CHECK VALVE		RETURN DUCT SECTION UP/DOWN	24/12 1/1	AND ACCESSORIES TO BE USED IN PROJECT. SUBMIT ALL EQUIPMENT AND ACCESSORIES LISTED ON MECHANICAL
BOD	BOTTOM OF DUCT	GALV	GALVANIZED	RH RM	RELATIVE HUMIDITY	- SI KING GILCIK VALVE		RETORN DOCT SECTION OF JOHN		SCHEDULE SHEET. SUBMIT SEVEN COPIES IN 3 RING
BOP BT	BOTTOM OF PIPE BATH TUB	GC GD	GENERAL CONTRACTOR GARAGE DRAIN	RPBP	ROOM REDUCED PRESS. BACKFLOW	BALL VALVE W/HOSE END & CAP	——фы	EXHAUST DUCT SECTION UP/DOWN	24/12 y >	BINDER TO ARCHITECT FOR REVIEW AND APPROVAL BY ENGINEER. DO NOT PLACE ORDER UNTIL ENGINEER HAS
BTU	BRITISH THERMAL UNIT	GH	GRAVITY HOOD	RM	PREVENTER ROOM	PRESSURE REDUCING VALVE			V 1 - · · · · · · · · · · · · · · · · · ·	REVIEWED AND APPROVED SUBMITTAL.
BTUH BV	BRITISH THERMAL UNITS/HR BALL VALVE	GPM GT	GALLONS PER MINUTE GREASE TRAP	RPM	REVOLUTIONS PER MINUTE ROOF TOP UNIT			SUPPLY DUCT SECTION UP/DOWN	() 18ø ()	7. RECORD ALL FIELD CHANGES ON RECORD DRAWINGS AND
C	CHILLER	HB	HOSE BIBB	REV	REVOLUTION, REVISION,	REDUCED PRESSURE BACKFLOW PREVENTER	RPBP——		<u>∏</u> —12ø	SUBMIT TO ENGINEER DURING PROJECT CLOSE OUT.
CA	COMPRESSED AIR	H/C, HC	HEATING COIL	S	REVERSE SECONDS, SUPPLY, SINK	INLINE PUMP		ROUND BRANCH	<u> </u>	8. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS.
CAP	CAPACITY	HEPA	HIGH EFFICIENCY PARTICULATE AIR	SA	SUPPLY AIR, SOUND ATTENUATOR	DDECCUDE A TEMPEDATURE RELIEF VALVE	*			
CAV C/C, CC	CONSTANT AIR VOLUME COOLING COIL	HOA HP	HAND, OFF, AUTO HORSEPOWER, HEAT PUMP	SAN SAT	SANITARY SATURATED	PRESSURE & TEMPERATURE RELIEF VALVE		DUCT TRANSITION	<24/12 18/12<	9. PROJECT ELEVATION IS 5000 FT FOR EQUIPMENT SELECTION.
CD	CONDENSATE DRAIN, CEILING DIFFUSER	HR	HOUR	SCFM	STANDARD CUBIC FEET PER	SQUARE HEAD COCK	——			10. PROVIDE ALL DUCT IN ACCORDANCE WITH SMACNA
CFM	CUBIC FEET PER MINUTE	HSTAT	HUMIDISTAT	SD	MINUTE STORM DRAIN, SMOKE DAMPER	STRAINER, W/BV HOSE END & CAP		SPIN-IN W/VOLUME DAMPER	24/12	STANDARDS FOR 2" WC PRESSURE CLASS. SEAL ALL
CFOI CHW	CONTRACTOR FURN., OWNER INSTALLED CHILLER WATER	HT HVAC	HEIGHT HEATING, VENTILATING, AIR—CONDITIONING	SECT SEN	SECTION SENSIBLE	- STIVAINER, WY BY HOSE END & CAI	A Q.		· · · · · · · · · · · · · · · · · · ·	TRANSVERSE AND LONGITUDINAL SEAMS AND JOINTS EXCEPT FOR WELDED OR LOCKING—TYPE LONGITUDINAL JOINTS.
CO	CLEAN OUT, CARBON MONOXIDE	HX	HEAT EXCHANGER	SHT	SHEET	TEMPERATURE & PRESSURE PLUG	T	FIRE SMOKE DAMPER		11. INSULATE ALL EXHAUST DUCT BELOW ROOF WITH 1-1/2"
CO2 CONC	CARBON DIOXIDE CONCRETE	HZ IAQ	FREQUENCY INDOOR AIR QUALITY	SIM	SIMILAR SEA LEVEL	CIRCUIT SETTER	——₩	FIRE DAMPER	→	THICK 0.75 LBS/CF FIBERGLASS DUCT WRAP. TRIM AND
COND	CONDENS(ER),(ING),(ATE),(ATION)	ID	INSIDE DIAMETER	SP	STATIC PRESSURE		1.		<u> </u>	SEAL JOINTS.
CONT COP	CONTINUOUS COEFFICIENT OF PERFORMANCE, COPPER	IE IN	INVERT ELEVATION INCH	SPEC SQ	SPECIFICATION SQUARE	AUTOMATIC FLOW CONTROL VALVE		SMOKE DAMPER	O	12. PROVIDE TEST AND BALANCE REPORT TO ENGINEER FOR REVIEW AND APPROVAL.
COTG	CLEANOUT TO GRADE	IN WC	INCHES, WATER COLUMN	SS	SERVICE SINK, STAINLESS	AUTOMATIC/MANUAL AIR VENT	Pav · 卓 ˈmav	MOTORIZED DAMPER	M	
CPVC	CHLORINATED POLY VINYL CHLORIDE	INV	INVERT	STC	SOUND TRANSMISSION CLASS		Ų Q.			13. DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS.
CU	COOLING TOWER CONDENSING UNIT, CUBIC	JS	INPUT/OUTPUT JANITORS SINK	STD STRUCT	STANDARD STRUCTUR(E),(AL)	THERMOMETER/PRESSURE GAGE W/COCK	———— ———— ————————————————————————————	GRAVITY BACKDRAFT DAMPER		14. PROVIDE ISOLATION VALVES SERVING EACH PIECE OF
CV	CONTROL VALVE, CONSTANT VOLUME	KEC	KITCHEN EQUIPMENT CONTRACTOR	SUCT	SUCTION	TEMPERATURE SENSOR		MANUAL VOLUME DAMPER	VD	EQUIPMENT.
CW	CABINET UNIT HEATER CONDENSER WATER, CLOCKWISE	KWH	KILOWATT HOUR	T&P	TEMPERATURE, TIME TEMPERATURE AND	CONCENTRIC/ECCENTRIC REDUCER				15. DISINFECT NEW DOMESTIC WATER PIPING. SUBMIT DISINFECTION REPORT TO ENGINEER FOR REVIEW.
DA	DISCHARGE AIR	LAT	LEAVING AIR TEMPERATURE	TAB	PRESSURE TEST, ADJUST AND BALANCE	- Contachtural Reporter	71	SIDE/PLAN ACCESS DOOR		16. ALL WASTE AND VENT IS 2" UNLESS OTHERWISE NOTED.
dB DB	DECIBELS DRY BULB TEMPERATURE	LAV LBS	LAVATORY POUNDS	TDH TEMP	TOTAL DYNAMIC HEAD TEMPERATURE, TEMPORARY	UNION				
DDC	DIRECT DIGITAL CONTROL	LF	LINEAR FEET	TONS	TONS OF REFRIGERATION	BUSHING/CAP	— <u>D——</u>	SUPPLY AIR DEVICE		17. ALL WASTE AND VENT PIPE SHALL BE SERVICE WEIGHT CAST IRON, SCHEDULE 40 ABS, OR SCHEDULE 40 PVC.
DF DIA	DRINKING FOUNTAIN DIAMETER	LVR LWT	LOUVER LEAVING WATER TEMPERATURE	TOD TOP	TOP OF DUCT TOP OF PIPE			DETUDNI AID DE 405		
DMPR	DAMPER	MA	MEDICAL AIR, MIXED AIR	TSP	TOTAL STATIC PRESSURE	ELBOW UP/DOWN	ا ا ا	RETURN AIR DEVICE		18. ALL WATER PIPE SHALL BE TYPE "L" COPPER.
DP DR	DEWPOINT, DIFFERENTIAL PRESSURE DRAIN	MAT MAU	MATERIAL, MIXED AIR TEMPERATURE MAKE UP AIR HANDLING UNIT	TSTAT TYP	THERMOSTAT TYPICAL	TOP/BOTTOM CONNECTION, 45° OR 90°	<u> </u>	EXHAUST AIR DEVICE		19. T-DRILL FITTINGS SHALL NOT BE USED IN THIS PROJECT.
DSN	DOWNSPOUT NOZZLE	MAV	MANUAL AIR VENT	U	URINAL	TEE UP/SIDE/DOWN		EVITACOL VIIV DEAICE	K Y	20. ALL "BRANCH" HOT AND COLD WATER LINES FEEDING ONE
DW DWG	DISHWASHER DRAWING	MAX MBH	MAXIMUM BTU/HR X 1,000	UH UNO	UNIT HEATER UNLESS NOTED OTHERWISE	-	-	THERMOSTAT/HUMIDISTAT	① ①	OR TWO SINKS ARE 1/2". DROP IN WALL AND DISTRIBUTE TO SINKS AS REQ'D. PROVIDE INDIVIDUAL STOPS FOR
DWV	DRAIN, WASTE, VENT	MC	MECHANICAL CONTRACTOR	V	VENT, VALVE	FLOW/PITCH DOWN DIRECTION	2%	,	-	EACH SINK.
(E) EXIST	DIRECT EXPANSION EXISTING	MCC MECH	MOTOR CONTROL CENTER MECHANICAL	VA VAC	VOLT AMPERE VACUUM	ANCHOR/GUIDE	-	POINT OF CONNECTION/REMOVAL		21. ALL NATURAL GAS PIPE SHALL BE SCHEDULE 40 STEEL
ÉÁT EC	ENTERING AIR TEMPERATURE	MH MIN	MAN HOLE MINIMUM, MINUTE	VAV VD	VARIABLE AIR VOLUME			KEYED NOTE/REVISION	$\langle 1 \rangle$ $\wedge \uparrow$	PIPE WITH SCREWED FITTINGS FOR 2 LB SERVICE. CONTRACTOR MAY USE CSST DOWNSTREAM OF REGULATORS
ECON	ELECTRICAL CONTRACTOR ECONOMIZER	MVD	MANUAL VOLUME DAMPER	VD VFD	VOLUME DAMPER VARIABLE FREQUENCY DRIVE	EXPANSION JOINT/FLEX CONNECTOR		•	<u> </u>	FOR FINAL EQUIPMENT CONNECTION.
EDH EER	ELECTRIC DUCT HEATER ENERGY EFFICIENCY RATIO	NA NC	NOT APPLICABLE NOISE CRITERIA, NORMALLY CLOSED	VI VOL	VIBRATION ISOLATOR VOLUME	FLOOR OR GRADE CLEANOUT, W/CONC PAD	<u> </u>	WALL SWITCH	\$	22. PROVIDE "DIRT LEG" AHEAD OF EACH PIECE OF FUEL FIRED
EF	EXHAUST FAN	NIC	NOT IN CONTRACT	VP	VELOCITY PRESSURE	- WALL CLEANOUT LIGGE DIDD OD WALL LIGGE	ANT II † WH	DESIG	GNATOR	EQUIPMENT.
EFF ELEV	EFFICIENCY	NO	NORMALLY OPEN, NITROUS OXIDE	VSC	VARIABLE SPEED CONTROLLER	WALL CLEANOUT, HOSE BIBB OR WALL HYDRA	ми II · — <u>wп</u>	EQUIPMENT CALLOUT	$\langle \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	23. PROVIDE TRAP PRIMERS AND CONNECT TO ALL FLOOR DRAINS, ALL FLOOR SINKS, AND ALL STANDPIPES THAT DO
EL, ELEV EMER	ELEVATION EMERGENCY	NO. NOM	NUMBER NOMINAL	VTR W	VENT THROUGH ROOF WASTE	FLOOR DRAIN/FLOOR SINK		CHARAC	CTERISTIC	NOT HAVE A RELIABLE SOURCE TO MAINTAIN TRAP SEAL.
ENCL	ENCLOSURE	NR	NOISE REDUCTION	W/	WITH	VENT		PLUMBING FIXTURE CALLOUT	FIXTURE	
ESP ET	EXTERNAL STATIC PRESSURE EXPANSION TANK	NRC NTS	NOISE REDUCTION COEFFICIENT NOT TO SCALE	W/O WB	WITHOUT WET BULB	COLD WATER		I LUMBING HATURE CALLUUT	\ rixiure)	SHEET LIST
EUH	ELECTRIC UNIT HEATER	OA	OUTSIDE AIR	WC	WATER CLOSET	HOT WATER SANITARY SEWER		NF	TAIL NO.	NUO04 NEOUNION NEOUNO N
EVAP EWB	EVAPROAT(E),(ING),(ED),(OR) ENTERING WET BULB	OBD OD	OPPOSED BLADE DAMPER OVERFLOW DRAIN, OUTSIDE DIAMETER	WCO WHA	WALL CLEAN OUT WATER HAMMER ARRESTOR	SANITARY SEWER BELOW GRADE		DETAIL TAG	M601	MH001 — MECHANICAL LEGENDS AND NOTES MH101 — MECHANICAL FLOOR PLAN
EWC	ELECTRIC WATER COOLER	OF/CI	OWNER FURN./CONTRACTOR INSTALLED	WT	WEIGHT	FIRE SERVICE	—— F ——	SHEET	T NO	MH501 — MECHANICAL DETAILS MH601 — MECHANICAL SCHEDULES
EWH EWS	ELECTRIC WATER HEATER EYE WASH STATION	OF/OI OS&Y	OWNER FURNISHED/OWNER INSTALLED OPEN SCREW & YOLK	YCO	YARD CLEANOUT	NATURAL GAS	——— G ———			PP101 — PLUMBING FLOOR PLAN
I EWS					<u> </u>	-				PP401 — ENLARGED PLUMBING FLOOR PLANS



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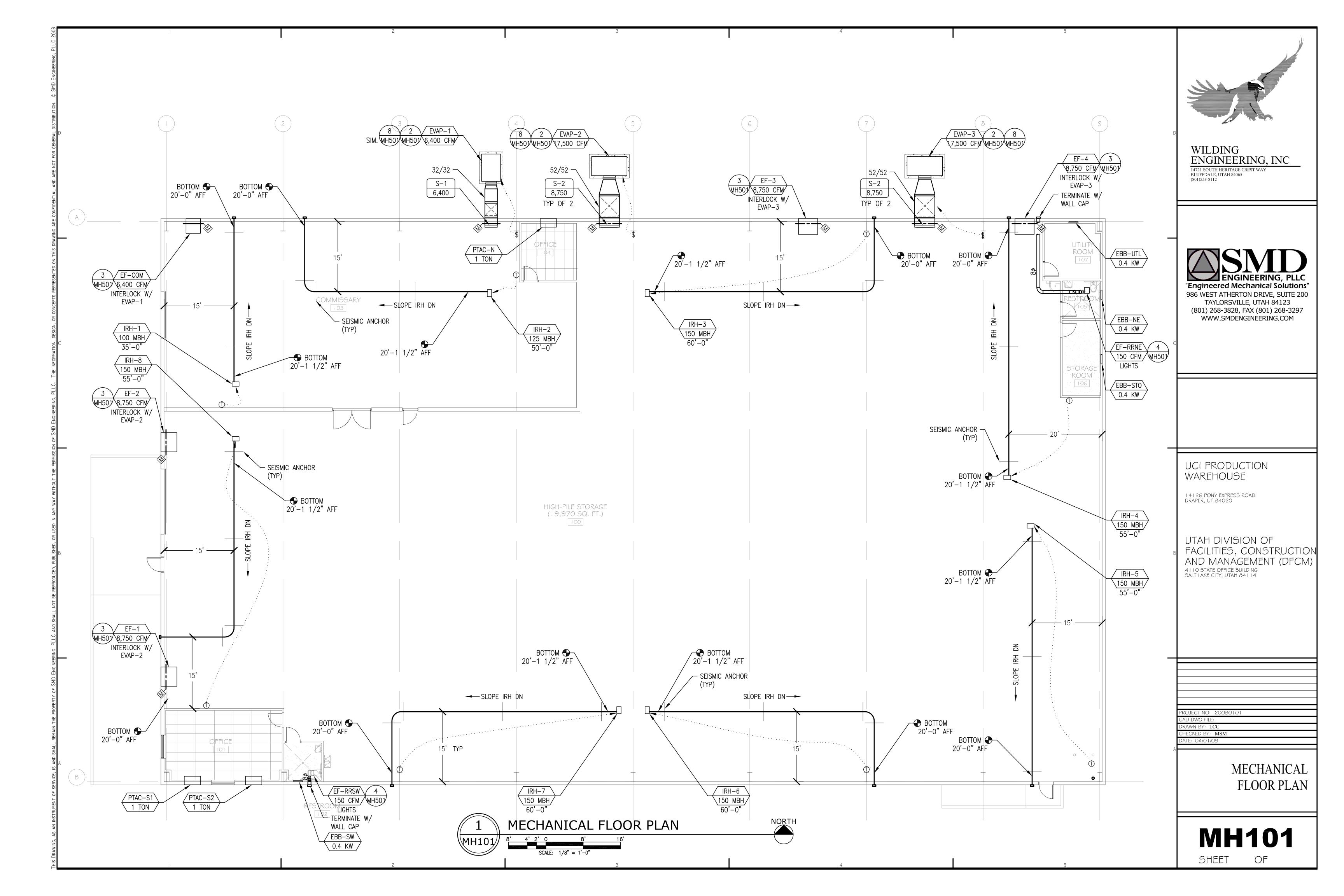
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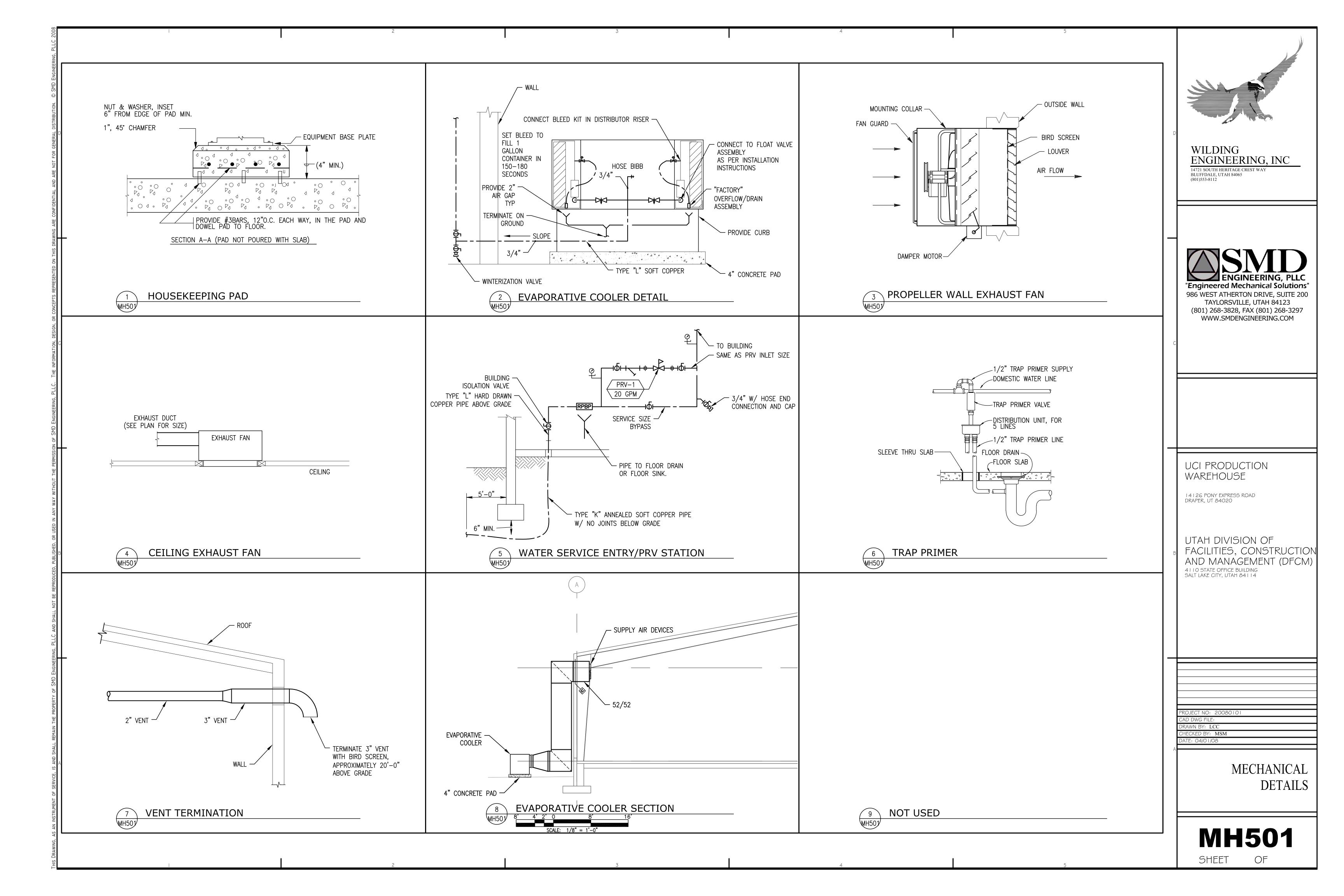
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CHECKED BY: MSM
DATE: 04/01/08

MECHANICAL LEGENDS AND NOTES

MH001

SHEET OF





		EL	ECTF	RIC BA	SEB	OAR	D HI	EATE	R (EBB)	EBB KW			
	MARK	MARK AREA SERVED WATTS VOLTS/ PHASE L D H WT (LBS) MANUFACTURER MODEL											
	EBB-NE	NORTHEAST RESTROOM	400	277/ 1ø	24	3	7	5	QMARK 2572W	W/ BASEBOARD THERMOSTAT			
	EBB-SW	SOUTHWEST RESTROOM	400	277/ 1ø	24	3	7	5	QMARK 2572W	W/ BASEBOARD THERMOSTAT			
)	EBB-ST0	STORAGE	400	277/ 1ø	24	3	7	5	QMARK 2572W	W/ BASEBOARD THERMOSTAT			
	EBB-UTL	UTILITY	400	277/ 1ø	24	3	7	5	QMARK 2572W	W/ BASEBOARD THERMOSTAT			

							_								_		
	EVAPORATIVE COOLER SCHEDULE (EVAP))		EVAP CFM
	SP FAN MOTOR PUMP MOTOR DIMENSIONS																
MARK	AREA SERVED	TYPE	CFM	S.L IN WC	FAN RPM	DAMPER	RPM	HP	VOLT/ PHASE	VOLT/ PHASE	HP	W (IN)	D (IN)	H (IN)	WT (LBS)	MANUFACTURER MODEL	REMARKS
EVAP-1	COMMISS.	SINGLE INLET SIDE DISCHARGE	6,400	0.5	424	MOTORIZED	1750	1.5	460/ 3ø	120/ 1ø	1/2	49	70	52	615	MASTERCOOL US960 W/ UM120	W/ 12" MEDIA AND MOTORIZED DAMPER, PROVIDE "FACTORY" CONTROL SWITCH
EVAP-2	WAREHOUSE	DUAL INLET SIDE DISCHARGE	17,500	0.5	443	MOTORIZED	1750	7.5	460/ 3ø	120/ 1ø	1/2	91	49	52	988	MASTERCOOL US980 W/ UM120	W/ 12" MEDIA AND MOTORIZED DAMPER, PROVIDE "FACTORY" CONTROL SWITCH
EVAP-3	WAREHOUSE	DUAL INLET SIDE DISCHARGE	17,500	0.5	443	MOTORIZED	1750	7.5	460/ 3ø	120/ 1ø	1/2	91	49	52	988	MASTERCOOL US980 W/ UM120	W/ 12" MEDIA AND MOTORIZED DAMPER, PROVIDE "FACTORY" CONTROL SWITCH

EVAP CFM		
REMARKS		
EDIA AND MOTORIZED DAMPER, "FACTORY" CONTROL SWITCH		
EDIA AND MOTORIZED DAMPER, "FACTORY" CONTROL SWITCH	D	7.7
EDIA AND MOTORIZED DAMPER, "FACTORY" CONTROL SWITCH		E 1472 BLU

			PL	UMB:	ING	FIXT	URE SCHED	DULE (FIXTURE)
			RC	OUGH IN S	IZE		MANUEACTURER	
MARK	FIXTURE	WASTE IN	TRAP IN	VENT IN	HW IN	CW IN	MANUFACTURER MODEL	REMARKS
WC-1	WATER CLOSET, FLOOR MOUNTED, TANK TYPE, ADA COMPLIANT	3	2	2	N/A	1/2	TOTO "DRAKE" CST744SL	VITREOUS CHINA, 1.6 GPF, 3" FLUSH VALVE, 17" FLOOR TO RIM, 12" ROUGH IN, ELONGATED BOWL, W/ BEMIS 1955C OPEN FRONT SEAT LESS COVER.
U-1	URINAL, ADA COMPLIANT, WALL MOUNTED, W/ MANUAL FLUSH VALVE	2	2	2	N/A	3/4	AMERICAN STANDARD "WASHBROOK" W/ ZURN Z6003 FLUSH VALVE	VITREOUS CHINA, 1.0 GPF 19" W X 27" H X 14" D, WASHOUT FLUSH ACTION, LOW CONSUMPTION URINAL WITH 3/4" MANUAL FLUSH VALVE AND WALL CARRIER. SEE ARCHITECTURAL ELEVATIONS FOR MOUNTING ELEVATION.
LAV-1	LAVATORY, WALL—HUNG ADA COMPLIANT, W/ SINGLE CONTROL FAUCET	2	1 1/4	2	1/2	1/2	AMERICAN STANDARD "LUCERNE" LAVATORY W/ "SEVA" FAUCET	VITREOUS CHINA 18"X21" WALL MOUNTED LAVATORY W/ FLOOR MOUNTED CONCEALED ARM CARRIER, HOLES ON 4" CENTERS, GRID STRAINER, CHROMED ANGLE STOPS, CHROMED BRASS SUPPLIES, AND CHROMED BRASS "P" TRAP, AND ADA COMPLIANT INSULATION KIT.
SS-1	SERVICE SINK, ENAMELED CAST IRON	3	3	2	1/2	1/2	AMERICAN STANDARD FLORWELL W/FAUCET 8344.112	28"X28"X13" DEEP ENAMELED CAST IRON SERVICE SINK W/FLAT GRID DRAIN, REMOVABLE VINYL—COATED RIM GUARD, HOSE AND HOSE BRACKET. POLISHED CHROME FAUCET W/TOP BRACE, STOPS AND VACUUM BREAKER.
WH-1	FREEZELESS WALL HYDRANT	N/A	N/A	N/A	N/A	3/4	ZURN "ECOLOTROL" Z1315	EXPOSED, FREEZELESS WALL HYDRANT W/ OPERATING KEY AND VACUUM BREAKER.
TP	TRAP PRIMER	N/A	N/A	N/A	N/A	1/2	PPP 500	TRAP PRIMER.
FD-1	FLOOR DRAIN	X	Х	X/2 2" MIN	N/A	N/A	ZURN FD-2321-NH"X" "X" INDICATED ON DRAWINGS	CAST IRON BODY, ADJUSTABLE NICKEL BRONZE STRAINER ASSEMBLY, MEMBRANE CLAMP, WEEP HOLES, AND TRAP PRIMER CONNECTION.
FS-1	FLOOR SINK 6" DEEP	2	2	2	N/A	N/A	ZURN FD-2375-Y	CAST IRON, 12"X12"X6" DEEP, 1/2 GRATE, WHITE ACID RESISTING INTERIOR, PVC DOME STRAINER, AND SEDIMENT BUCKET.

	EXPANSION TANK SCHEDULE (ET) GAL GAL														
MARK	SYSTEM SERVED	TEMP °F	GLYC. %	TANK VOL. GAL	ACCEPT. VOL. GAL	PRE- CHARGE PSI	DIA. IN	MANUFACTURER MODEL	REMARKS						
ET-1	URINAL	60	POTABLE	6.4	3.2	65	12	16	55	AMTROL THERM-X-TROL ST-12-C	W/ POTABLE WATER BLADDER				

PRV SCHEDULE (PRV) GPM GPM												
MARK	SIZE	GPM	PD PSI	SETTING	MANUFACTURER MODEL							
PRV-1	3/4	20	10	65	WATTS 223S							

	{	BURNER		DIN	IENSIONS					
MARK	INPUT MBH	VOLT/ PHASE	RLA	TUBE FLUE DIA DIA IN IN		WT LBS	MANUFACTURER MODEL	REMARKS		
IRH-1	100	120/ 1ø	1.0	4	4	180	ROBERTS-GORDON VANTAGE II / CTH2-100	NOTE 1, SIDEWAL TERMINATION		
IRH-2	125	120/ 1ø	1.0	4	4	24 6	ROBERTS-GORDON VANTAGE II / CTH2-150	NOTE 1, SIDEWAL TERMINATION		
IRH-3	150	120/ 1ø	1.0	4	4	28 0	ROBERTS-GORDON VANTAGE II / CTH2-150	NOTE 1, SIDEWAL TERMINATION		
IRH-4	150	120/ 1ø	1.0	4	4	28 0	ROBERTS-GORDON VANTAGE II / CTH2-150	NOTE 1, SIDEWAL TERMINATION		
IRH-5	150	120/ 1ø	1.0	4	4	28 0	ROBERTS-GORDON VANTAGE II / CTH2-150	NOTE 1, SIDEWAL TERMINATION		
IRH-6	150	120/ 1ø	1.0	4	4	28 0	ROBERTS-GORDON VANTAGE II / CTH2-150	NOTE 1, SIDEWAL TERMINATION		
IRH-7	150	120/ 1ø	1.0	4	4	28 0	ROBERTS-GORDON VANTAGE II / CTH2-150	NOTE 1, SIDEWAL TERMINATION		
IRH-8	150	120/ 1ø	1.0	4	4	28 0	ROBERTS-GORDON VANTAGE II / CTH2-150	NOTE 1, SIDEWAL TERMINATION		

		' '				_		,			
E 1:	NATURAL	GAS, PAR	ABOLIC	ALUMINU	/ REFLE	CTORS,	ALUMINIZ	ED TUBING,	HANGERS,	ACCESSORIES,	HOT
	SURFACE	GIGNITION	. "FACT	ORY" CON	TROLS.	AND CA	ST IRON	BURNER.			

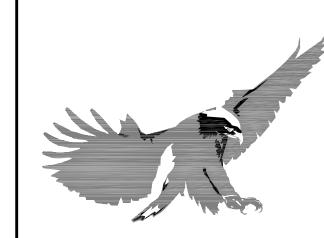
					EXH	HAUS	ST FA	AN S	CHE	DULE (EF)			EF CFM
MARK	AREA SERVED	TYPE	CFM	ESP IN WC	FAN RPM	BHP	MOTOR HP	VOLT/	SONES	DAMPER	CONTROL	OPENING SIZE	MANUFACTURER MODEL	REMARKS
	SLIVED			114 440	IXI IVI	ВНР	ПР	PHASE				IN		
EF-1	WAREHOUSE	WALL-PAC	8,750	0.125	492	0.687	3/4	460/ 3ø	14.8	MOTORIZED	INTERLOCK W/ EVAP-2	49.5/49.5	COOK APB 42P6B	WALL-PAC W/ WALL SLEEVE AND OSHA GUARD
EF-2	WAREHOUSE	WALL-PAC	8,750	0.125	492	0.687	3/4	460/ 3ø	14.8	MOTORIZED	INTERLOCK W/ EVAP-2	49.5/49.5	COOK APB 42P6B	WALL-PAC W/ WALL SLEEVE AND OSHA GUARD
EF-3	WAREHOUSE	WALL-PAC	8,750	0.125	492	0.687	3/4	460/ 3ø	14.8	MOTORIZED	INTERLOCK W/ EVAP-3	49.5/49.5	COOK APB 42P6B	WALL-PAC W/ WALL SLEEVE AND OSHA GUARD
EF-4	WAREHOUSE	WALL-PAC	8,750	0.125	492	0.687	3/4	460/ 3ø	14.8	MOTORIZED	INTERLOCK W/ EVAP-3	49.5/49.5	COOK APB 42P6B	WALL-PAC W/ WALL SLEEVE AND OSHA GUARD
EF-COM	COMMISS.	WALL-PAC	6,400	0.125	778	0.59	3/4	460/ 3ø	16.6	MOTORIZED	INTERLOCK W/ EVAP-1	37/37	COOK APB 30P6B	WALL-PAC W/ WALL SLEEVE AND OSHA GUARD
EF-RRNE	NORTHEAST RESTROOM	CABINET	150	0.375	1200	94.1 WATTS	N/A	120/ 1ø	3.0	GRAVITY	LIGHTS	15/13	COOK GEMC GC-164	W/ ELECTRONIC SPEED CONTROL
EF-RRSW	SOUTHWEST RESTROOM	CABINET	150	0.375	1200	94.1 WATTS	N/A	120/ 1ø	3.0	GRAVITY	LIGHTS	15/13	COOK GEMC GC-164	W/ ELECTRONIC SPEED CONTROL

	INSTANTANEOUS ELECTRIC WATER HEATER SCHEDULE (IWH)												
		INDLIT	EL OW	TEMP	OPER		DIME	NSIONS		ELE	CT.	MANUICACTUDED	
MARK	AREA SERVED	INPUT KW	FLOW GPM	RISE *F	TEMP *F	W IN	D IN	H IN	WT LBS	VOLT/ PHASE	AMPS	MANUFACTURER MODEL	REMARKS
IWH-RRN	NORTHEAST RESTROOM	6.0	0.75	55	110	5	3	11	3	277/ 1ø	22	EEMAX "FLOW CONTROLLED" SP60	
IWH-RRS	SOUTHWEST RESTROOM	6.0	0.75	55	110	5	3	11	3	277/ 1ø	22	EEMAX "FLOW CONTROLLED" SP60	
IWH-SS	SERVICE SINK	10.0	1.0	68	120	5	3	11	3	277/ 1ø	36	EEMAX "FLOW CONTROLLED" SP100	

AIR DEVICE SCHEDULE											
MARK	TYPE & DUTY	FACE SIZE W X H	NECK SIZE W X H	CEILING TYPE	MAX. CFM	MAX. T.P. (IN WC)	MAX. NC LEVEL	MIN T50 THROW (FT)	PATTERN	MANUFACTURER MODEL	REMARKS
S-1	DOUBLE DEFLECTION INDUSTRIAL GRILLE	32/32	30/30	DUCT	6,400	0.12	35	140	ADJ.	NAILOR 81DH	
S-2	DOUBLE DEFLECTION INDUSTRIAL GRILLE	52/26	50/24	DUCT	8.750	0.13	38	158	ADJ.	NAILOR 81DH	

	PACKAGED TERMINAL AIR CONDITIONER (PTAC) NOM. TON														
	AREA	HEATER	ELE	CTRICAL			DIMEN	ISIONS		MANUFACTURER					
MARK	SERVED	NOM. TONS	EER	COOLING MBH	HEATING MBH	KW	VOLT/ PHASE	MCA	MF S	L IN	W IN	H IN	WT LBS	MODEL	REMARKS
PTAC-N	NORTH OFFICE	1.0	11.1	12.1	10.8	5.0	277/ 1ø	24.3	25	42	22	16	140	CARRIER 52PQ-5124	NOTE 1
PTAC-S1	SOUTH OFFICE	1.0	11.1	12.1	10.8	5.0	277/ 1ø	24.3	25	42	22	16	140	CARRIER 52PQ-5124	NOTE 1
PTAC-S2	SOUTH OFFICE	1.0	11.1	12.1	10.8	5.0	277/ 1ø	24.3	25	42	22	16	140	CARRIER 52PQ-5124	NOTE 1

NOTE 1: W/ WALL SLEEVE AND UNIT MOUNTED THERMOSTAT, ARCHITECT TO SELECT EXTERIOR GRILLE COLOR FROM MANUFACTURERS STANDARD COLOR PALETTE.



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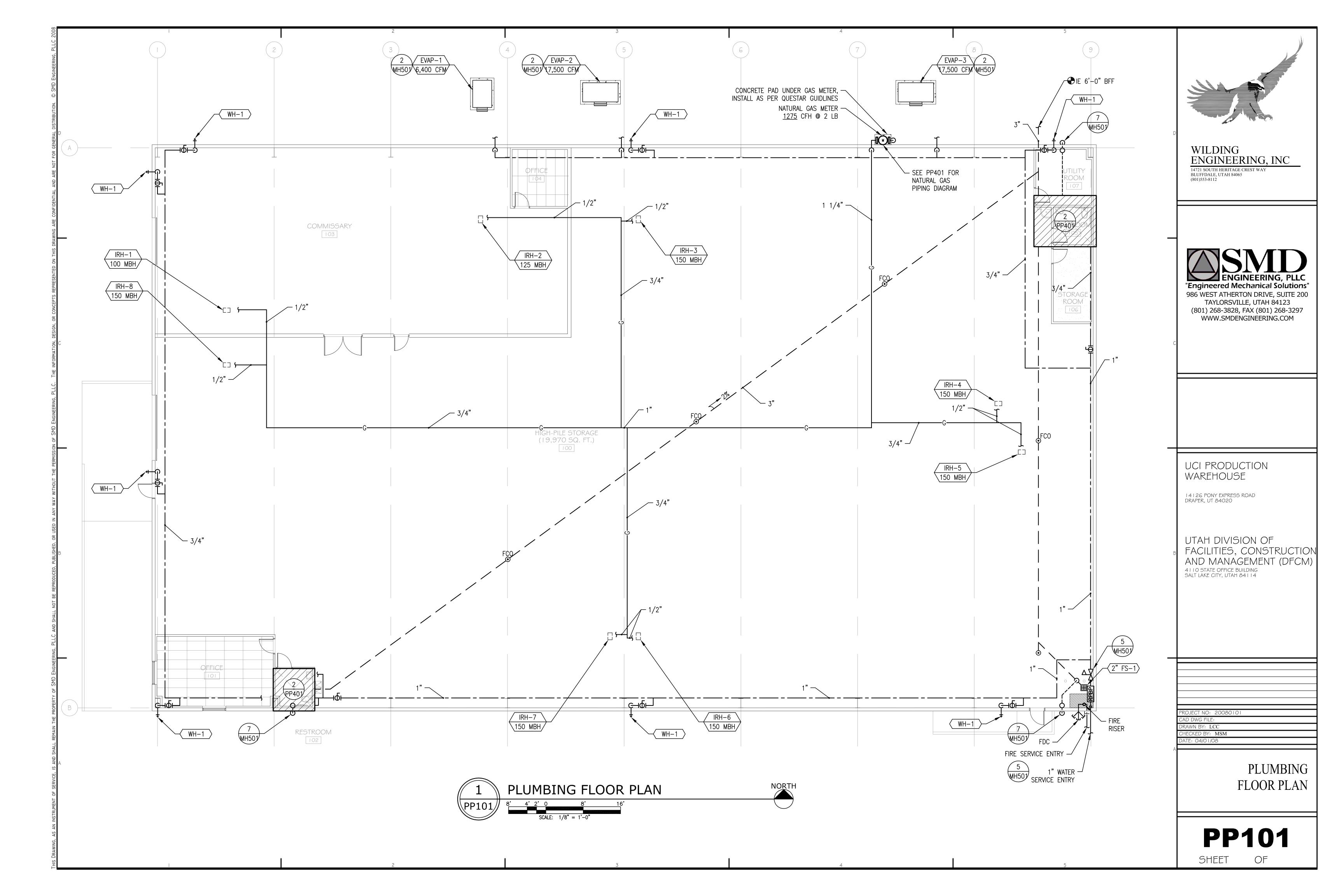
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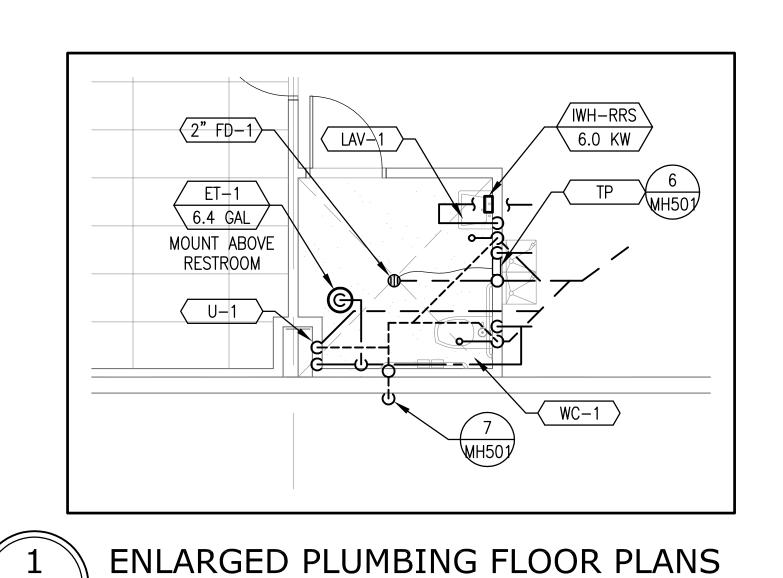
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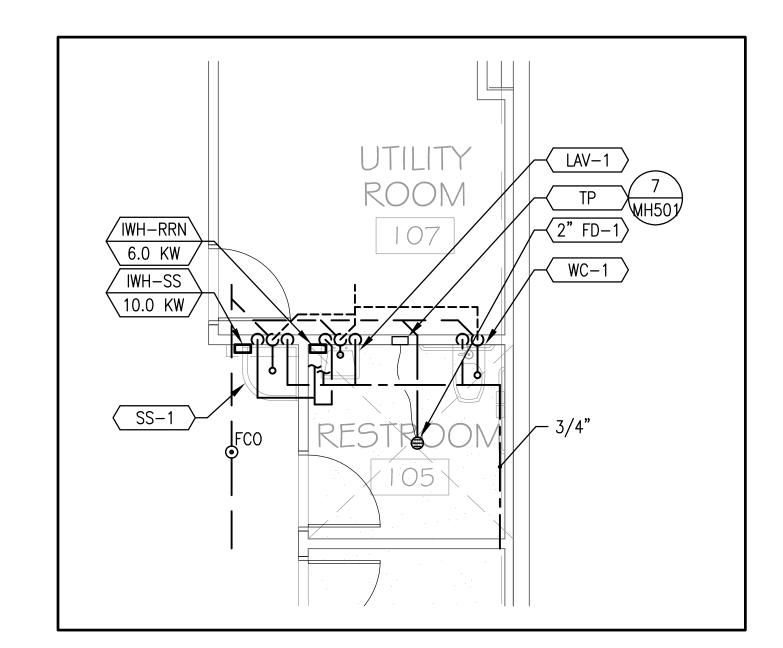
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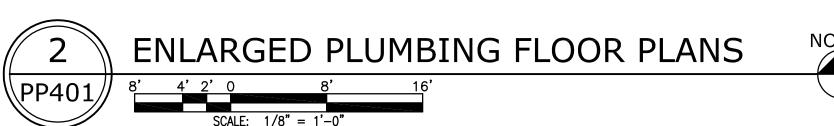
SCHEDULES

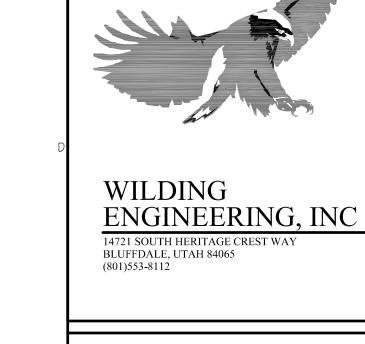












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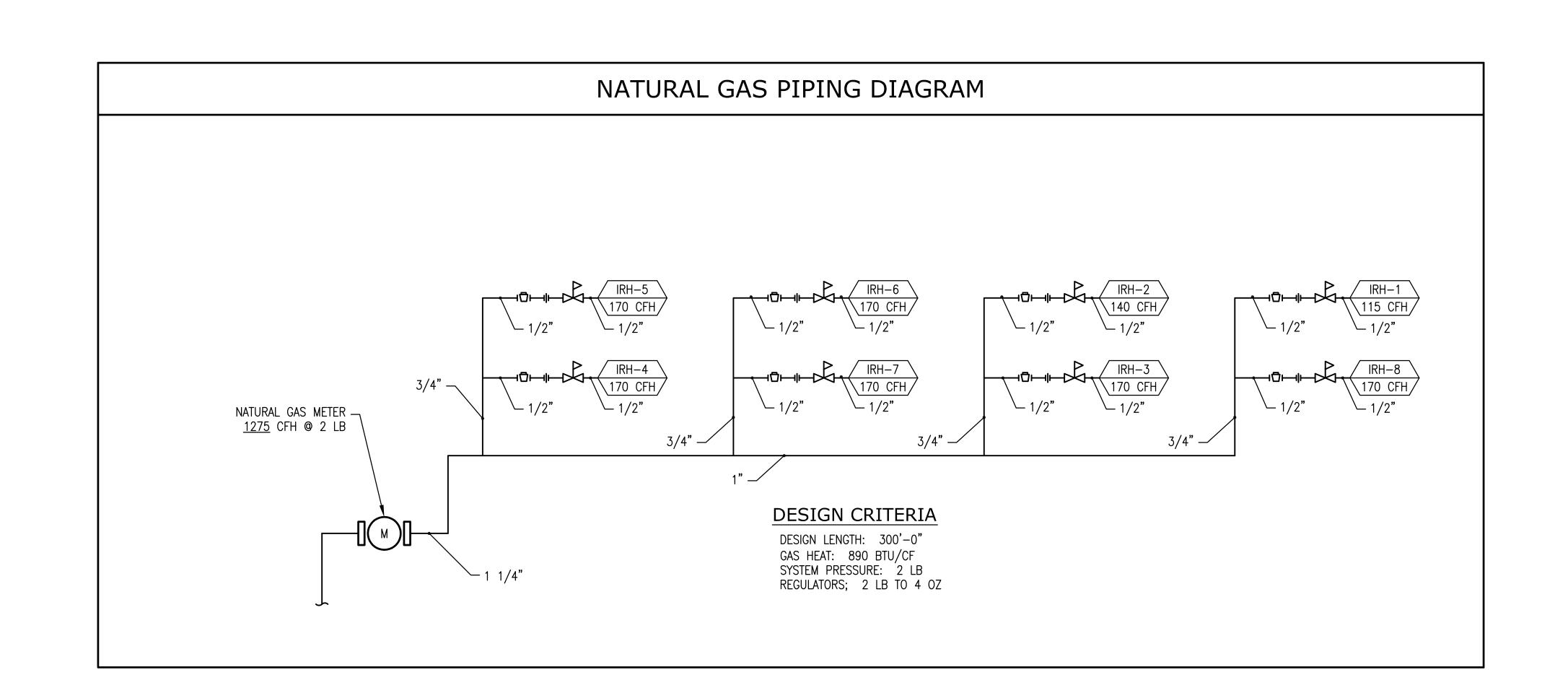
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ENLARGED PLUMBING FLOOR PLANS

PP401
SHEET OF



SYMB <i>O</i> L	MIRING DEVICE S DESCRIPTION	MOUNTIN			REMARKS
\$	SINGLE-POLE TOGGLE SWITCH	+48"			
\$ ^a	SINGLE-POLE TOGGLE SWITCH	+48"			RIPT KEYS SWITCH TO JRES CONTROLLED.
\$ ₂	DOUBLE-POLE TOGGLE SWITCH	+48"			
\$ ₃	THREE-WAY TOGGLE SWITCH	+48"			
\$4	FOUR-WAY TOGGLE SWITCH	+48"			
\$ _K	KEY-OPERATED SINGLE-POLE TOGGLE SWITCH SINGLE-POLE TOGGLE SWITCH WITH PILOT LIGHT	+48"			
\$ _P		+40		RATE I	DIMMER SWITCH FOR
\$ _{DIM}	DIMMER SWITCH	+48"			1 POSSIBLE WATTAGE
\$ _{TIM}	TIMER SWITCH	+48"			
\$\$	(2) SINGLE-POLE TOGGLE SWITCH	+48"			SWITCH OUTBOARD LAMPS Y FROM INBOARD LAMPS.
\$a_\/	LOW VOLTAGE MOMENTARY CONTACT SWITCH	+48"		JLI ARATLL	TIROTINDOAND LATES.
\$3PM	3-POSITION MOMENTARY CONTACT SWITCH	+48"			FER TO DETAIL
	3-POSITION MAINTAINED CONTACT SWITCH	+48"			TER-NEUTRAL; DOWN-OFF ENTER-OFF; DOWN-ON
\$ _{3PN}					INTED WITH SUBSCRIPT 'C';
● C/W	OCCUPANCY SENSOR	AS NOTE	D		NTED WITH SUBSCRIPT 'W'
-	SPLIT-WIRED DUPLEX RECEPTACLE	+18"			
Θ	SIMPLEX RECEPTACLE	+18"			
<u></u>	DUPLEX RECEPTACLE	+ 8"			
<u></u>	FOURPLEX RECEPTAGLE	+ 8"		RVN	9E NEMA 14-50R
₩	I25/250V RECEPTACLE	+18"			9E NEI IA 14-50R ER NEMA 14-30R
<u></u> ♣	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE GROUND FAULT CIRCUIT INTERRUPTER FOURPLEX RECEPTACLE	+18"			
<u> </u>	EMERGENCY DUPLEX RECEPTACLE	+18"			
-	EMERGENCY FOURPLEX RECEPTACLE	+18"			
	MULTI-OUTLET ASSEMBLY	4" ABOV	_		_
	POWER / TELEPHONE POLE	BACKSPLA FLOOR/CEIL	$\overline{}$		
<u> </u>	CORD DROP WITH DUPLEX RECEPTACLE	+I8"	_IINU	RF	FER TO DETAIL
τ		<u> </u>		SUBSCRIPT IN	PARENTHESIS INDICATES NEMA
) (5-20R)	SPECIAL PURPOSE OUTLET	+ 8"		DRAWINGS AN	ON IF SHOWN. REFER TO D/OR EQUIPMENT SCHEDULES. CT CONFIGURATION WITH OWNER TALLATION.
	GEAR AND CONTRO	DL SYMBO	DLS		
SYMB <i>O</i> L	DESCRIPTION			10UNTING	REMARKS
\$ _T	MANUAL STARTER WITH THERMAL OVERLOAD(S)		AT	EQUIPMENT	
6	ELECTRIC MOTOR				
\Box					
	NON-FUSED DISCONNECT SWITCH			+60"	
	FUSED DISCONNECT SWITCH			+60"	
	FUSED DISCONNECT SWITCH CIRCUIT BREAKER AND ENCLOSURE			+60"	
	FUSED DISCONNECT SWITCH	IEGT		+60"	
	FUSED DISCONNECT SWITCH CIRCUIT BREAKER AND ENCLOSURE MAGNETIC STARTER	IECT		+60" +60" +60"	
	FUSED DISCONNECT SWITCH CIRCUIT BREAKER AND ENCLOSURE MAGNETIC STARTER COMBINATION MAGNETIC STARTER / NON-FUSED DISCONN			+60" +60" +60" +60" +60" +60"	
	FUSED DISCONNECT SWITCH CIRCUIT BREAKER AND ENCLOSURE MAGNETIC STARTER COMBINATION MAGNETIC STARTER / NON-FUSED DISCONN COMBINATION MAGNETIC STARTER / FUSED DISCONNECT	R (MCP)		+60" +60" +60" +60" +60"	TOP AT +72" IF WALL MOUNTED
	FUSED DISCONNECT SWITCH CIRCUIT BREAKER AND ENCLOSURE MAGNETIC STARTER COMBINATION MAGNETIC STARTER / NON-FUSED DISCONN COMBINATION MAGNETIC STARTER / FUSED DISCONNECT COMB. MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR	R (MCP)	AS FLC	+60" +60" +60" +60" +60" +60" OOR OR WALL OOR OR WALL	WALL MOUNTED TOP AT +72" IF
	FUSED DISCONNECT SWITCH CIRCUIT BREAKER AND ENCLOSURE MAGNETIC STARTER COMBINATION MAGNETIC STARTER / NON-FUSED DISCONN COMBINATION MAGNETIC STARTER / FUSED DISCONNECT COMB. MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR COMB. VARIABLE FREQUENCY DRIVE / MOTOR CIRCUIT PROT	R (MCP)	FLC AS	+60" +60" +60" +60" +60" +60" OOR OR WALL	WALL MOUNTED TOP AT +12" IF WALL MOUNTED
	FUSED DISCONNECT SWITCH CIRCUIT BREAKER AND ENCLOSURE MAGNETIC STARTER COMBINATION MAGNETIC STARTER / NON-FUSED DISCONN COMBINATION MAGNETIC STARTER / FUSED DISCONNECT COMB. MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR COMB. VARIABLE FREQUENCY DRIVE / MOTOR CIRCUIT PROT REDUCED VOLTAGE STARTER	R (MCP)	FLC AS	+60" +60" +60" +60" +60" +60" 200R OR WALL SPECIFIED 200R OR WALL SPECIFIED	WALL MOUNTED TOP AT +72" IF
	FUSED DISCONNECT SWITCH CIRCUIT BREAKER AND ENCLOSURE MAGNETIC STARTER COMBINATION MAGNETIC STARTER / NON-FUSED DISCONN COMBINATION MAGNETIC STARTER / FUSED DISCONNECT COMB. MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR COMB. VARIABLE FREQUENCY DRIVE / MOTOR CIRCUIT PROT REDUCED VOLTAGE STARTER LOAD CENTER (SURFACE-MOUNTED)	R (MCP) ECTOR (MCP)	FLC AS	+60" +60" +60" +60" +60" +60" OOR OR WALL SPECIFIED OOR OR WALL SPECIFIED	WALL MOUNTED TOP AT +72" IF WALL MOUNTED 14"W X 3"D
	FUSED DISCONNECT SWITCH CIRCUIT BREAKER AND ENCLOSURE MAGNETIC STARTER COMBINATION MAGNETIC STARTER / NON-FUSED DISCONNECT COMBINATION MAGNETIC STARTER / FUSED DISCONNECT COMB. MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR COMB. VARIABLE FREQUENCY DRIVE / MOTOR CIRCUIT PROT REDUCED VOLTAGE STARTER LOAD CENTER (SURFACE-MOUNTED) LOAD CENTER (FLUSH-MOUNTED)	R (MCP) ECTOR (MCP) ITED)	FLC AS TC	+60" +60" +60" +60" +60" +60" OOR OR WALL SPECIFIED OOR OR WALL SPECIFIED	WALL MOUNTED TOP AT +72" IF WALL MOUNTED I4"W X 3"D I4"W X 3"D 20"W X 6"D 20"W X 6"D
	FUSED DISCONNECT SWITCH CIRCUIT BREAKER AND ENCLOSURE MAGNETIC STARTER COMBINATION MAGNETIC STARTER / NON-FUSED DISCONN COMBINATION MAGNETIC STARTER / FUSED DISCONNECT COMB. MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR COMB. VARIABLE FREQUENCY DRIVE / MOTOR CIRCUIT PROT REDUCED VOLTAGE STARTER LOAD CENTER (SURFACE-MOUNTED) LOAD CENTER (FLUSH-MOUNTED) LIGHTING AND APPLIANCE PANELBOARD (SURFACE-MOUNTED)	R (MCP) ECTOR (MCP) ITED)	FLC AS TC	+60" +60" +60" +60" +60" +60" 00R OR WALL SPECIFIED 00P AT +72" 0P AT +72" 0P AT +72"	WALL MOUNTED TOP AT +72" IF WALL MOUNTED I4"W X 3"D I4"W X 3"D 20"W X 6"D 20"W X 6"D THESE SYMBOLS ARE GENERAL IN NATURE AND
	FUSED DISCONNECT SWITCH CIRCUIT BREAKER AND ENCLOSURE MAGNETIC STARTER COMBINATION MAGNETIC STARTER / NON-FUSED DISCONN COMBINATION MAGNETIC STARTER / FUSED DISCONNECT COMB. MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR COMB. VARIABLE FREQUENCY DRIVE / MOTOR CIRCUIT PROT REDUCED VOLTAGE STARTER LOAD CENTER (SURFACE-MOUNTED) LOAD CENTER (FLUSH-MOUNTED) LIGHTING AND APPLIANCE PANELBOARD (SURFACE-MOUNTED)	R (MCP) ECTOR (MCP) ITED)	FLC AS TC	+60" +60" +60" +60" +60" +60" 00R OR WALL SPECIFIED 00R OR WALL SPECIFIED 00P AT +72" 0P AT +72"	WALL MOUNTED TOP AT +72" IF WALL MOUNTED I4"W X 3"D I4"W X 3"D 20"W X 6"D 20"W X 6"D THESE SYMBOLS ARE GENERAL IN NATURE AND MAY VARY IN SIZE AND SHAPE TO SUIT APPLICATION
	FUSED DISCONNECT SWITCH CIRCUIT BREAKER AND ENCLOSURE MAGNETIC STARTER COMBINATION MAGNETIC STARTER / NON-FUSED DISCONN COMBINATION MAGNETIC STARTER / FUSED DISCONNECT COMB. MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR COMB. VARIABLE FREQUENCY DRIVE / MOTOR CIRCUIT PROT REDUCED VOLTAGE STARTER LOAD CENTER (SURFACE-MOUNTED) LOAD CENTER (FLUSH-MOUNTED) LIGHTING AND APPLIANCE PANELBOARD (SURFACE-MOUNTED)	R (MCP) ECTOR (MCP) ITED)	FLC AS TC	+60" +60" +60" +60" +60" +60" OOR OR WALL 6 SPECIFIED OP AT +72" OP AT +72" OP AT +72" WALL	WALL MOUNTED TOP AT +72" IF WALL MOUNTED I4"W X 3"D I4"W X 3"D 20"W X 6"D 20"W X 6"D THESE SYMBOLS ARE GENERAL IN NATURE AND MAY VARY IN SIZE AND SHAPE TO SUIT APPLICATION CROSS HATCHING INDICATES "MAIN PANELBOARD OR
	FUSED DISCONNECT SWITCH CIRCUIT BREAKER AND ENCLOSURE MAGNETIC STARTER COMBINATION MAGNETIC STARTER / NON-FUSED DISCONN COMBINATION MAGNETIC STARTER / FUSED DISCONNECT COMB. MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR COMB. VARIABLE FREQUENCY DRIVE / MOTOR CIRCUIT PROT REDUCED VOLTAGE STARTER LOAD CENTER (SURFACE-MOUNTED) LOAD CENTER (FLUSH-MOUNTED) LIGHTING AND APPLIANCE PANELBOARD (SURFACE-MOUNTED)	R (MCP) ECTOR (MCP) ITED)	FLC AS TC	+60" +60" +60" +60" +60" +60" 00R OR WALL SPECIFIED 00P AT +72" 0P AT +72" 0P AT +72"	WALL MOUNTED TOP AT +72" IF WALL MOUNTED I4"W X 3"D I4"W X 3"D 20"W X 6"D 20"W X 6"D THESE SYMBOLS ARE GENERAL IN NATURE AND MAY VARY IN SIZE AND SHAPE TO SUIT APPLICATION CROSS HATCHING INDICATES "MAIN PANELBOARD OR SWITCHBOARD" NAME IS INDICATED IN
	FUSED DISCONNECT SWITCH CIRCUIT BREAKER AND ENCLOSURE MAGNETIC STARTER COMBINATION MAGNETIC STARTER / NON-FUSED DISCONN COMBINATION MAGNETIC STARTER / FUSED DISCONNECT COMB. MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR COMB. VARIABLE FREQUENCY DRIVE / MOTOR CIRCUIT PROT REDUCED VOLTAGE STARTER LOAD CENTER (SURFACE-MOUNTED) LIGHTING AND APPLIANCE PANELBOARD (SURFACE-MOUN LIGHTING AND APPLIANCE PANELBOARD (FLUSH-MOUNTE) POWER DISTRIBUTION PANELBOARD SWITCHBOARD	R (MCP) ECTOR (MCP) ITED)	AS FLC AS TO	+60" +60" +60" +60" +60" +60" +60" OOR OR WALL SPECIFIED OP AT +72" OP AT +72" WALL FLOOR	WALL MOUNTED TOP AT +72" IF WALL MOUNTED I4"W X 3"D I4"W X 3"D 20"W X 6"D 20"W X 6"D THESE SYMBOLS ARE GENERAL IN NATURE AND MAY VARY IN SIZE AND SHAPE TO SUIT APPLICATION CROSS HATCHING INDICATES "MAIN PANELBOARD OR SWITCHBOARD"
	FUSED DISCONNECT SWITCH CIRCUIT BREAKER AND ENCLOSURE MAGNETIC STARTER COMBINATION MAGNETIC STARTER / NON-FUSED DISCONN COMBINATION MAGNETIC STARTER / FUSED DISCONNECT COMB. MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR COMB. VARIABLE FREQUENCY DRIVE / MOTOR CIRCUIT PROT REDUCED VOLTAGE STARTER LOAD CENTER (SURFACE-MOUNTED) LOAD CENTER (FLUSH-MOUNTED) LIGHTING AND APPLIANCE PANELBOARD (SURFACE-MOUNTED) LIGHTING AND APPLIANCE PANELBOARD (FLUSH-MOUNTED) POWER DISTRIBUTION PANELBOARD	R (MCP) ECTOR (MCP) ITED)	AS FLC AS TO	+60" +60" +60" +60" +60" +60" OOR OR WALL 6 SPECIFIED OP AT +72" OP AT +72" OP AT +72" WALL	WALL MOUNTED TOP AT +72" IF WALL MOUNTED I4"W X 3"D I4"W X 3"D 20"W X 6"D 20"W X 6"D THESE SYMBOLS ARE GENERAL IN NATURE AND MAY VARY IN SIZE AND SHAPE TO SUIT APPLICATION CROSS HATCHING INDICATES "MAIN PANELBOARD OR SWITCHBOARD" NAME IS INDICATED IN SEMI-QUOTES (I.E. "L2A", MDP") FURNISH SWITCH UNLESS
	FUSED DISCONNECT SWITCH CIRCUIT BREAKER AND ENCLOSURE MAGNETIC STARTER COMBINATION MAGNETIC STARTER / NON-FUSED DISCONN COMBINATION MAGNETIC STARTER / FUSED DISCONNECT COMB. MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR COMB. VARIABLE FREQUENCY DRIVE / MOTOR CIRCUIT PROT REDUCED VOLTAGE STARTER LOAD CENTER (SURFACE-MOUNTED) LOAD CENTER (FLUSH-MOUNTED) LIGHTING AND APPLIANCE PANELBOARD (SURFACE-MOUN LIGHTING AND APPLIANCE PANELBOARD FOWER DISTRIBUTION PANELBOARD METER BASE	R (MCP) ECTOR (MCP) ITED)	AS FLC AS TO	+60" +60" +60" +60" +60" +60" +60" 6 SPECIFIED DOR OR WALL SPECIFIED OP AT +72" OP AT +72" WALL FLOOR OP AT +72"	WALL MOUNTED TOP AT +12" IF WALL MOUNTED I4"W X 3"D I4"W X 3"D 20"W X 6"D 20"W X 6"D THESE SYMBOLS ARE GENERAL IN NATURE AND MAY VARY IN SIZE AND SHAPE TO SUIT APPLICATION CROSS HATCHING INDICATES "MAIN PANELBOARD" NAME IS INDICATED IN SEMI-QUOTES (I.E. "L2A", MDP' FURNISH SWITCH UNLESS FURNISHED BY ANOTHER DIVISION. INSTALL AND
	FUSED DISCONNECT SWITCH CIRCUIT BREAKER AND ENCLOSURE MAGNETIC STARTER COMBINATION MAGNETIC STARTER / NON-FUSED DISCONN COMBINATION MAGNETIC STARTER / FUSED DISCONNECT COMB. MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR COMB. VARIABLE FREQUENCY DRIVE / MOTOR CIRCUIT PROT REDUCED VOLTAGE STARTER LOAD CENTER (SURFACE-MOUNTED) LIGHTING AND APPLIANCE PANELBOARD (SURFACE-MOUN LIGHTING AND APPLIANCE PANELBOARD (FLUSH-MOUNTE) POWER DISTRIBUTION PANELBOARD SWITCHBOARD	R (MCP) ECTOR (MCP) ITED)	AS FLC AS TO	+60" +60" +60" +60" +60" +60" +60" OOR OR WALL SPECIFIED OP AT +72" OP AT +72" WALL FLOOR	WALL MOUNTED TOP AT +12" IF WALL MOUNTED I4"W X 3"D I4"W X 3"D 20"W X 6"D 20"W X 6"D THESE SYMBOLS ARE GENERAL IN NATURE AND MAY VARY IN SIZE AND SHAPE TO SUIT APPLICATION CROSS HATCHING INDICATES "MAIN PANELBOARD OR SWITCHBOARD" NAME IS INDICATED IN SEMI-QUOTES (I.E. "L2A", MDP') FURNISH SWITCH UNLESS FURNISHED BY ANOTHER DIVISION. INSTALL AND CONNECT COMPLETE. REFER TO RELATED SPECIFICATION
	FUSED DISCONNECT SWITCH CIRCUIT BREAKER AND ENCLOSURE MAGNETIC STARTER COMBINATION MAGNETIC STARTER / NON-FUSED DISCONN COMBINATION MAGNETIC STARTER / FUSED DISCONNECT COMB. MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR COMB. VARIABLE FREQUENCY DRIVE / MOTOR CIRCUIT PROT REDUCED VOLTAGE STARTER LOAD CENTER (SURFACE-MOUNTED) LOAD CENTER (FLUSH-MOUNTED) LIGHTING AND APPLIANCE PANELBOARD (SURFACE-MOUN LIGHTING AND APPLIANCE PANELBOARD (FLUSH-MOUNTE) POWER DISTRIBUTION PANELBOARD METER BASE OPEN - STOP - CLOSE SWITCH	R (MCP) ECTOR (MCP) ITED)	AS FLC AS TO	+60" +60" +60" +60" +60" +60" +60" OOR OR WALL SPECIFIED OP AT +72" OP AT +72" WALL FLOOR OP AT +72" +60"	WALL MOUNTED TOP AT +72" IF WALL MOUNTED I4"W X 3"D I4"W X 3"D 20"W X 6"D 20"W X 6"D THESE SYMBOLS ARE GENERAL IN NATURE AND MAY VARY IN SIZE AND SHAPE TO SUIT APPLICATION CROSS HATCHING INDICATES "MAIN PANELBOARD OR SWITCHBOARD" NAME IS INDICATED IN SEMI-QUOTES (I.E. "L2A", "MDP! FURNISH SWITCH UNLESS FURNISHED BY ANOTHER DIVISION. INSTALL AND CONNECT COMPLETE. REFER TO RELATED SPECIFICATION SECTIONS.
	FUSED DISCONNECT SWITCH CIRCUIT BREAKER AND ENCLOSURE MAGNETIC STARTER COMBINATION MAGNETIC STARTER / NON-FUSED DISCONN COMBINATION MAGNETIC STARTER / FUSED DISCONNECT COMB. MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR COMB. VARIABLE FREQUENCY DRIVE / MOTOR CIRCUIT PROT REDUCED VOLTAGE STARTER LOAD CENTER (SURFACE-MOUNTED) LOAD CENTER (FLUSH-MOUNTED) LIGHTING AND APPLIANCE PANELBOARD (SURFACE-MOUN LIGHTING AND APPLIANCE PANELBOARD FOWER DISTRIBUTION PANELBOARD METER BASE	R (MCP) ECTOR (MCP) ITED)	AS FLC AS TO	+60" +60" +60" +60" +60" +60" +60" 6 SPECIFIED DOR OR WALL SPECIFIED OP AT +72" OP AT +72" WALL FLOOR OP AT +72"	WALL MOUNTED TOP AT +12" IF WALL MOUNTED I4"W X 3"D I4"W X 3"D 20"W X 6"D 20"W X 6"D THESE SYMBOLS ARE GENERAL IN NATURE AND MAY VARY IN SIZE AND SHAPE TO SUIT APPLICATION CROSS HATCHING INDICATES "MAIN PANELBOARD OR SWITCHBOARD" NAME IS INDICATED IN SEMI-QUOTES (I.E. "L2A", MDP') FURNISH SWITCH UNLESS FURNISHED BY ANOTHER DIVISION. INSTALL AND CONNECT COMPLETE. REFER TO RELATED SPECIFICATION
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	FUSED DISCONNECT SWITCH CIRCUIT BREAKER AND ENCLOSURE MAGNETIC STARTER COMBINATION MAGNETIC STARTER / NON-FUSED DISCONNECT COMB. MAGNETIC STARTER / FUSED DISCONNECT COMB. MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR COMB. VARIABLE FREQUENCY DRIVE / MOTOR CIRCUIT PROT REDUCED VOLTAGE STARTER LOAD CENTER (SURFACE-MOUNTED) LIGHTING AND APPLIANCE PANELBOARD (SURFACE-MOUNTED) LIGHTING AND APPLIANCE PANELBOARD (FLUSH-MOUNTED) POWER DISTRIBUTION PANELBOARD METER BASE OPEN - STOP - CLOSE SWITCH HVAC THERMOSTAT HAND - OFF - AUTO SWITCH GROUND FAULT PROTECTION	R (MCP) ECTOR (MCP) ITED) D)	To To	+60" +60" +60" +60" +60" +60" +60" DOR OR WALL SPECIFIED DOP AT +72" DOP AT +72" DOP AT +72" WALL FLOOR OP AT +72" +60"	WALL MOUNTED TOP AT +72" IF WALL MOUNTED I4"W X 3"D I4"W X 3"D 20"W X 6"D 20"W X 6"D THESE SYMBOLS ARE GENERAL IN NATURE AND MAY VARY IN SIZE AND SHAPE TO SUIT APPLICATION CROSS HATCHING INDICATES "MAIN PANELBOARD OR SWITCHBOARD" NAME IS INDICATED IN SEMI-QUOTES (I.E. "L2A", "MDP") FURNISH SWITCH UNLESS FURNISHED BY ANOTHER DIVISION. INSTALL AND CONNECT COMPLETE. REFER TO RELATED SPECIFICATION SECTIONS. PROVIDED BY DIVISION
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		LI <i>G</i> HTI	NG SYME	3 <i>0</i> LS					
		AT FIXTURE SYMBOLS ARE GENERAL IN NATURE A					SYMBOL	-	DESCRIPTION
$\left\{ \ \right\}$		PES. REFER TO THE LIGHT FIXTURE SCHEDULE F ROWS INDICATE AIMING DIRECTION.	OR SPECIFIC	CATION INFO	JRMA	HON.	\times		CEYED NOTE
 	SYMB <i>O</i> L	DESCRIPTION		MOUNTIN	1G	REMARKS		1 <i>(</i>	DETAIL REFERENCE
	□ □	ARM-MOUNTED SINGLE-HEAD LIGHT FIXTURE AI	ND POLE	AS SPECIF OR DETAIL			E-I		SEITHE NEI EINENGE
1 1 7		ARM-MOUNTED DOUBLE-HEAD LIGHT FIXTURE A	AND POLE	AS SPECIF OR DETAIL			2 E-2	E	ELEVATION REFERENCE
		POST-TOP SINGLE-HEAD, LIGHT FIXTURE AND	POLE	AS SPECIF OR DETAIL				-	
		WALL-MOUNTED FIXTURE		AS SPECIF OR DETAIL	LED	REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHT	(3) E-3)	5	BECTION REFERENCE
	O O	LIGHT BOLLARD		AS SPECIF OR DETAIL AS SPECIF	LED			-	
1	\Leftrightarrow	FLOOD LIGHT		OR DETAIL	LED		100		ARCHITECTURAL ROOM NUMBER
1 -	<u> </u>	RECESSED WALL FIXTURE OR STEP LIGHT		AS SPECIF OR DETAIL		REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHT	AHU	Ē	EQUIPMENT NAME / NUMBER
	•	FLUORESCENT LIGHT FIXTURES		AS SPECIF OR DETAIL			\triangle	F	REVISION NUMBER
		PARABOLIC - LOUVERED LIGHT FIXTURES		AS SPECIF				E	BREAKLINE
1									Bł
$\mid \mid$	0			AS SPECIF	ΞŒΩ		SYMB	<u> </u>	DESCRIPTION
	•	RECESSED INDIRECT FLUORESCENT LIGHT FIXT	TURES	OR DETAIL				-	I CIRCUIT, 2 WIRE BRANCH CI
	•	WALL-MOUNTED LINEAR FLUORESCENT LIGHT F	FIXTURE	AS SPECIF OR DETAIL			- -	_	2 CIRCUIT, 3 WIRE BRANCH C
]		FLUORESCENT LINEAR WALL WASHER		AS SPECIF OR DETAIL			'		
		RECESSED DOWN LIGHT		AS SPECIF OR DETAIL				-	3 CIRCUIT, 4 WIRE BRANCH C
		RECESSED WALL-WASHER OR DIRECTIONAL DO	DWNLI <i>G</i> HT	AS SPECIF OR DETAIL		IF SHOWN, ARROW INDICATES AIMING DIRECTION			
	0	SURFACE OR PENDANT-MOUNTED LIGHT FIXTUR	RE	AS SPECIF OR DETAIL					MULTIPLE WIRE BRANCH CIRC SWITCHES, DEVICES, ETC.
1	Ю	WALL-MOUNTED LIGHT FIXTURE TRACK OR MONO-POINT LIGHT FIXTURE		AS SPECIF OR DETAIL		REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHT			
}	\Diamond			AS SPECIF OR DETAIL		IF SHOWN, ARROW INDICATES AIMING DIRECTION		- 0	BRANCH CIRCUITING (U.N.O)
	D	WALL SCONCE	AS SPECIF OR DETAIL				-	BRANCH CIRCUITING (U.N.O.) AWAY FROM OBSERVER.	
		FLUORESCENT EGRESS LIGHT FIXTURE		AS SPECIF OR DETAIL	LED	THIS IS AN <u>EXAMPLE</u> OF AN EGRESS LIGHT FIXTURE. EGRESS LIGHT FIXTURES ARE HALF-SHADED DIAGONALLY.		-	BRANCH CIRCUITING (U.N.O) (CONDUIT STUB-IN
	•	FLUORESCENT EMERGENCY (NON-EGRESS) LIG	HT FIXTURE	AS SPECIF OR DETAIL	IED	THIS IN AN <u>EXAMPLE</u> OF AN EMERGENCY (NON-EGRESS) LIGHT FIXTURE. EMERGENCY FIXTURES ARE FULLY-SHADED.		\prec	INCOMING SERVICE
┨┞	8	CEILING MOUNTED EXIT SIGN		CEILING		DARKENED PORTION OF SIGN INDICATES	0		JUNCTION BOX
}	⊗	WALL-MOUNTED EXIT SIGN		DOOR WALL ABO		FACE(9); ARROW(9) INDICATE CHEVRON DIRECTION(9)			ABBREVIAT
]	K	WALL-MOUNTED EXIT SIGN W/ EMERGENCY LIGH	IT FIXTURE	DOOR			A	4B <i>0</i> V	NOTE: NOT ALL ABB 'E COUNTER
1	TC	TIME CLOCK		AC NOTE	<u> </u>		ADJ A	4DJA	
	\$	EMERGENCY LIGHT FIXTURE		AS NOTE			AHJ A		'E FINISHED FLOOR DRITY HAVING JURISDICTION NIIM
	® —	ELECTRIC PHOTOCELL		N/A		MOUNT ON ROOF FACING NORTH SKY	C	COND	
	(XX)	LIGHT FIXTURE CALLOUT (LETTER DENOTES FIX	TURE TYPE)				C.O.'S ('ENIENCE OUTLETS
		FIRE AL,	ARM SYI	1BOLS			EA E	COPP EACH ELECT	
] <u> </u>	SYMBOL	DESCRIPTION	MOUN 4" BELOW C			REMARKS	EM E	EMERO	GENCY FRIC METALLIC TUBING
	BDT	BEAM DETECTOR - TRANSMITTER	TOP OF DE	ETECTOR			ENT E	ELEC1	TRIC NONMETALLIC TUBING
┨┝	BDR	BEAM DETECTOR - RECEIVER	TOP OF DE	ETECTOR			E, EX	EXIST	
┨┞	EOL T	END OF LINE DEVICE TAMPER SWITCH	RECOMMEN AT VA	IDATIONS			FA F	FIRE A	OSION PROOF ALARM
$\mid \mid \mid$	\square	WATER FLOW INDICATOR	ON FIRE				FLA F	-ULL !	ALARM CONTROL PANEL LOAD AMPS
J [□	FSD	FIRE/SMOKE DAMPER	TOP A				FOB F	FREIG	BLE METAL CONDUIT SHT ON BOARD
] -		HEAT DETECTOR	CEILIN				HOA H	HAND	ND CONDUCTOR -OFF-AUTO
∮	SMOKE DETECTOR CEILIOD DUCT SMOKE DETECTOR SIDE O						IG I	SOLA	E POWER TED GROUND
1	E	FIRE ALARM MANUAL STATION	+48						MEDIATE METAL <i>CO</i> NDUIT ATED
$+$ \lfloor	Z	CONTROL MODULE	AT DEVICE	OLLED					
]		MONITOR MODULE	AT DEVICE MONIT	TOR					
	R	FAN SHUTDOWN RELAY	AT FAN C	EL	<u></u>	DPDINATE WITH DOOD INCTALLED CURCORIDE			
$\downarrow \mid$		MAGNETIC DOOR HOLDER	COORDINA DOOR INS	STALLER		ORDINATE WITH DOOR INSTALLER; SUBSCRIPT NDICATES TO MOUNT AT FLOOR LEVEL			
		WATER FLOOD INDICATOR AUDIO HORN	FLOC			OUDCODIDE INDUSTRIA			
	M	MINI AUDIO HORN	1			SUBSCRIPT 'WP' INDICATES THAT A WEATHER PROOF BACK BOX IS REQ.			

FIRE ALARM VISUAL STROBE

MINI AUDIO/VISUAL HORN/STROBE

FIRE ALARM AUDIO SPEAKER

FIRE ALARM AUDIO/VISUAL HORN/STROBE

FIRE ALARM AUDIO/VISUAL SPEAKER/STROBE

FIRE PROTECTION SPRINKLER RISER BELL

SYMBOL	DESCRIPTION		REMARKS				
			RLI IARRY				
$\times \times$	KEYED NOTE						
E-I	DETAIL REFERENCE	LETT DETA REFE	IMBER INDICATES DETAIL NUMBER; BOTTOM R-NUMBER INDICATES DRAWING SHEET WHEF . IS SHOWN; WHERE NOT SPECIFICALLY ENCED, DETAIL IS GENERAL IN NATURE AND APPLY WHERE APPLICABLE.				
2 E-2	ELEVATION REFERENCE	RENCE TOP NUI BOTTON ELEVAT					
3 E-3	SECTION REFERENCE		NUMBER INDICATES SECTION NUMBER; BOTTO ER NUMBER INDICATES WHERE SECTION IS NN.				
100	ARCHITECTURAL ROOM NUMBER						
AHU I	EQUIPMENT NAME / NUMBER	TYPE	NUMBER ABBREVIATES EQUIPMENT NAME OR E; BOTTOM NUMBER INDICATES EQUIPMENT BER. REFER TO EQUIPMENT SCHEDULE.				
\triangle	REVISION NUMBER	USED TO DENOTE CHANGES EITHER ISSUED BY ADDENDUM OR DURING CONSTRUCTION AND TO DENOTE RECORD DRAWING CHANGES.					
3	BREAKLINE	USEC) TO BREAK DRAWINGS.				
	BRANCH CIRCUITIN	IG SYMBOL	_S				
SYMBOL	DESCRIPTION		REMARKS				
	- I CIRCUIT, 2 WIRE BRANCH CIRCUIT HOME RUN TO PAN	EL	ARROWS: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS REQUIRED.				
	- 2 CIRCUIT, 3 WIRE BRANCH CIRCUIT HOME RUN TO PAI	NEL	SHORT CROSS LINES: NUMBER OF SHORT CROSS LINES INDICATES NUMBER OF PHAS TRAVELER, AND/OR SWITCHED CONDUCTORS REQUIRED IF GREATER THAN (ONE).				
	- 3 CIRCUIT, 4 WIRE BRANCH CIRCUIT HOME RUN TO PAI	NEL	LONG CROSS LINES: NUMBER OF LONG CROSS LINES INDICATES NUMBER OF NEUTRAL CONDUCTORS REQUIRED FOR MULTI-WIRE HOME RUNS.				
	_ MULTIPLE WIRE BRANCH CIRCUITING BETWEEN FIXTUR! SWITCHES, DEVICES, ETC.	MULTIPLE WIRE BRANCH CIRCUITING BETWEEN FIXTURES, SWITCHES, DEVICES, ETC.					
	BRANCH CIRCUITING (U.N.O.) TURNED UP OR TOWARDS	OBSERVER.					
	BRANCH CIRCUITING (U.N.O.) TURNED DOWN OR AWAY FROM OBSERVER.						
<u> </u>	BRANCH CIRCUITING (U.N.O.) CONTINUATION						
	CONDUIT STUB-IN		CAP AND MARK				
	NCOMING SERVICE						
<u> </u>	JUNCTION BOX		MOUNT AS NOTED. SUBSCRIPT 'F' INDICATES TO PROVIDE A FLOOR BOX WITH BLANK COVERPLATE				

ABBREVIATION SCHEDULE

NOTE: NOT ALL ABBREVIATIONS MAY BE USED.

ISO ISOLATED

KW KILOWATTS

KVA KILO VOLT AMPERES

MCA | MINIMUM CIRCUIT AMPS

MLO MAIN LUGS ONLY

N.I.C. NOT IN CONTRACT

N.O. NORMALLY OPEN

O.C. ON CENTER(S)

REMOVE

REQ. REQUIREMENTS

RMC RIGID METAL CONDUIT

TR TAMPER RESISTANT

QTY QUANTITY

TYP TYPICAL

| W/ | WITH

UF UNDER FLOOR UG UNDERGROUND

WP WEATHER PROOF

| XFMR | TRANSFORMER

RNC

N.C. NORMALLY CLOSED

NIGHT LIGHT

LFMC | LIQUID-TIGHT METAL CONDUIT

OCP OVER CURRENT PROTECTION

RIGID NONMETALLIC CONDUIT

TVSS TRANSIENT VOLTAGE SURGE SUPPRESSOR

REMOVE AND RELOCATE SURGE SUPPRESSION

SCP SECURITY CONTROL PANEL

U.N.O. UNLESS NOTED OTHERWISE

LFNC | LIQUID-TIGHT NONMETAL CONDUIT

SUBSCRIPT 'C' INDICATES

CEILING MOUNTING.

NUMERIC SUBSCRIPT INDICATES CANDELLA

FURNISHED BY FIRE PROTECTION CONTRACTOR AND INSTALLED AND CONNECTED BY DIV. 16000

RATING OF STROBE (I.E. - 15, 75, 110)

MOUNT AT LESSOR

OF EITHER 80" AFF

OR 6" BELOW

CEILING.

ELECTRICAL SHEET INDEX

EG001 SYMBOL SCHEDULE EGOO2 DETAILS EGOO3 DETAILS AND RISER DIAGRAMS ESIOI SITE PLAN ELIOI LIGHTING PLAN

EPIOI POWER PLAN EP40I ENLARGED DRAWINGS & SCHEDULES EP701 ONE-LINE EP80I PANEL SCHEDULES & ENERGY CODE

WILDING ENGINEERING, INC 14721 SOUTH HERITAGE CREST WAY BLUFFDALE, UTAH 84065

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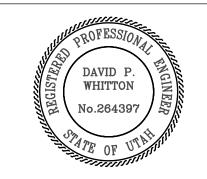
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UCI PRODUCTION WAREHOUSE

14126 PONY EXPRESS ROAD DRAPER, UT 84020

UTAH DIVISION OF FACILITIES, CONSTRUCTION AND MANAGEMENT (DFCM) 4110 STATE OFFICE BUILDING SALT LAKE CITY, UTAH 84114

PROJECT NO. 07284110

CONTRACT NO. 087137

02/25/08 FINAL REVIEW

PROJECT NO: CAD DWG FILE: DRAWN BY: MCC

CHECKED BY: DPW

SYMBOLS

SHEET

GENERAL PROJECT NOTES:

- I. DIVISION 16000 CONTRACTOR IS RESPONSIBLE FOR READING AND APPLYING WHAT IS IN THE SPECIFICATIONS TO THIS PROJECT. ANYTHING THAT IS NOT INCLUDED ON THE PROJECT THAT IS CALLED OUT IN THE SPECIFICATION SHALL BE LISTED ON THE SUBSTANTIAL COMPLETION PUNCHLIST. THE CONTRACTOR WILL BE REQUIRED TO REMEDY THESE DEFICIENCIES WITHOUT ADDITIONAL COSTS TO OWNER. THERE WILL BE
- 2. THE CONTRACTOR MAY SCHEDULE A PRE-CONSTRUCTION MEETING, AT THEIR DISCRETION, WITH THE ELECTRICAL ENGINEER TO REVIEW THE DRAWINGS AND SPECIFICATIONS. THE MEETING SHALL BE A MAXIMUM OF ONE HOUR AND SHALL TAKE PLACE AT THE ENGINEER'S OFFICE.
- 3. THE FOLLOWING ITEMS ARE SOME OF THE REQUIREMENTS THAT ARE LISTED IN THE SPECIFICATIONS. THESE ITEMS ARE NOT ALL INCLUSIVE, AND THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE TO ALL REQUIREMENTS OF THE SPECIFICATIONS:
- A. INSULATED THROAT CONNECTORS OR PLASTIC BUSHINGS SHALL BE UTILIZED FOR ALL CONDUIT SIZES USED ON THIS PROJECT.
- B. A #10 AWG NEUTRAL CONDUCTOR WILL BE PROVIDED FOR ALL FLUORESCENT LIGHTING CIRCUITS.
- C. THE CONTRACTOR IS RESPONSIBLE FOR UPSIZING CONDUCTORS FOR VOLTAGE DROP PER THE NEC REGARDLESS OF WHETHER IT IS SHOWN ON THE PLANS OR
- D. THE CONTRACTOR SHALL LABEL ALL ELECTRICAL EQUIPMENT AS IT IS CALLED OUT IN THE SPECIFICATIONS.
- E. THE CONTRACTOR SHALL PROVIDE SEISMIC SUPPORT AND BRACING FOR ALL LIGHT FIXTURES AND ELECTRICAL EQUIPMENT AS REQUIRED BY APPLICABLE LOCAL AND NATIONAL CODES.
- 4. THE CONTRACTOR SHALL FOLLOW THE PANELBOARD SCHEDULES AS INDICATED IN THE DRAWINGS. EACH CIRCUIT BREAKER HAS BEEN ASSIGNED TO A SPECIFIC AREA OF THE BUILDING. NO DEVIATION WILL BE ALLOWED WITHOUT WRITTEN APPROVAL FROM THE ELECTRICAL ENGINEER.
- 5. AT A MINIMUM THE CONTRACTOR SHALL INSTALL THE WIRE SIZE AS CALLED OUT ON THE PANELBOARD SCHEDULES. HOWEVER, THE CONTRACTOR IS RESPONSIBLE TO ENSURE THE WIRE IS SIZED LARGE ENOUGH TO ALLOW FOR VOLTAGE DROP.
- 6. THE CONTRACTOR SHALL VERIFY ALL MECHANICAL OVERCURRENT DEVICES FOR THE ACTUAL MECHANICAL EQUIPMENT SUPPLIED ON THE JOB, PRIOR TO RELEASE OF ANY ELECTRICAL DISTRIBUTION EQUIPMENT. CONTACT THE ELECTRICAL ENGINEER WITH ANY
- 7. THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING THE BID, AND SHALL EXAMINE ALL PHYSICAL CONDITIONS WHICH MAY BE MATERIAL TO THE PERFORMANCE OF HIS WORK. NO ADDITIONAL PAYMENTS WILL BE ALLOWED TO THE CONTRACTOR AS A RESULT OF EXTRA WORK MADE NECESSARY BY HIS FAILURE TO DO SO. ANY CASE OF DISCREPANCY OR LACK OF CLARITY SHALL BE PROMPTLY IDENTIFIED TO THE OWNER'S REPRESENTATIVE AND THE ENGINEER FOR CLARIFICATION.

PROVIDE 4"x4"x2-I/8" DEEP JUNCTION BOX WITH SINGLE GANG PLASTER RING AND EXTEND 3/4" CONDUIT WITH NYLON PULL ROPE TO THE TELEPHONE TERMINAL BOARD. TERMINATE CONDUIT AT BOARD WITH A NYLON BUSHING. CABLE TO BE PROVIDED BY OWNER.

AI-40 — DESIGNATION OF CIRCUIT. WIRE COMPLETE.

AI-40/IG - ISOLATED GROUND CIRCUIT.

4 TYPICAL OUTLET CONVENTION

CIRCUIT DESIGNATION (FIRST)/
RELAY DESIGNATION (SECOND)

LEXIT SIGNS. CONNECT
TO UNSWITCHED HOT EMERGENCY LIGHTING
CIRCUIT.

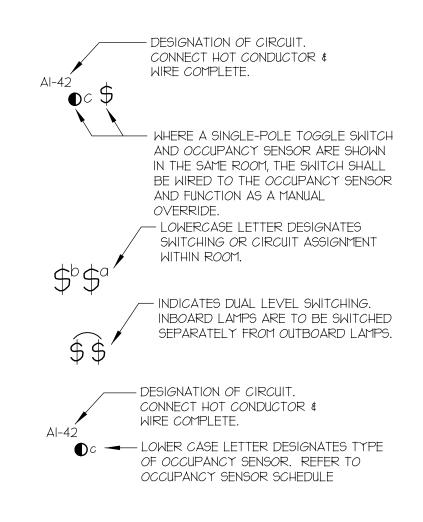
LETTER DESIGNATES
FIXTURE TYPE.

LOWERCASE LETTER DESIGNATES
SWITCHING OR CIRCUIT ASSIGNMENT.
ASSIGNMENTS, SUCH AS a/b, INDICATE
DUAL LEVEL SWITCHING.

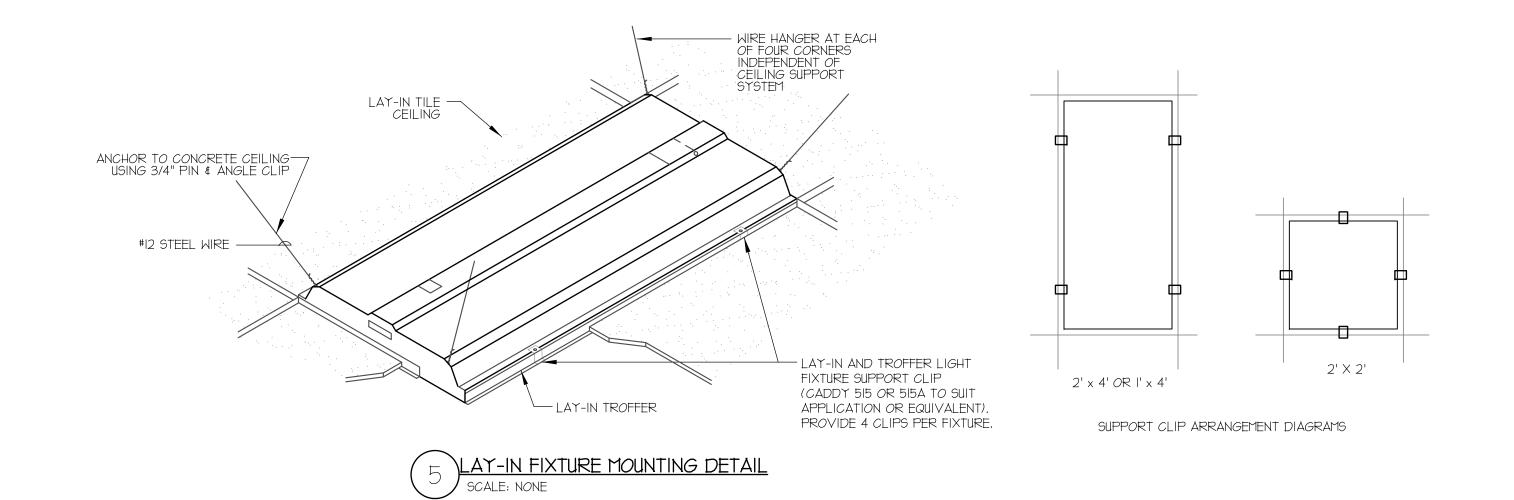
LETTER DESIGNATES
FIXTURE TYPE.

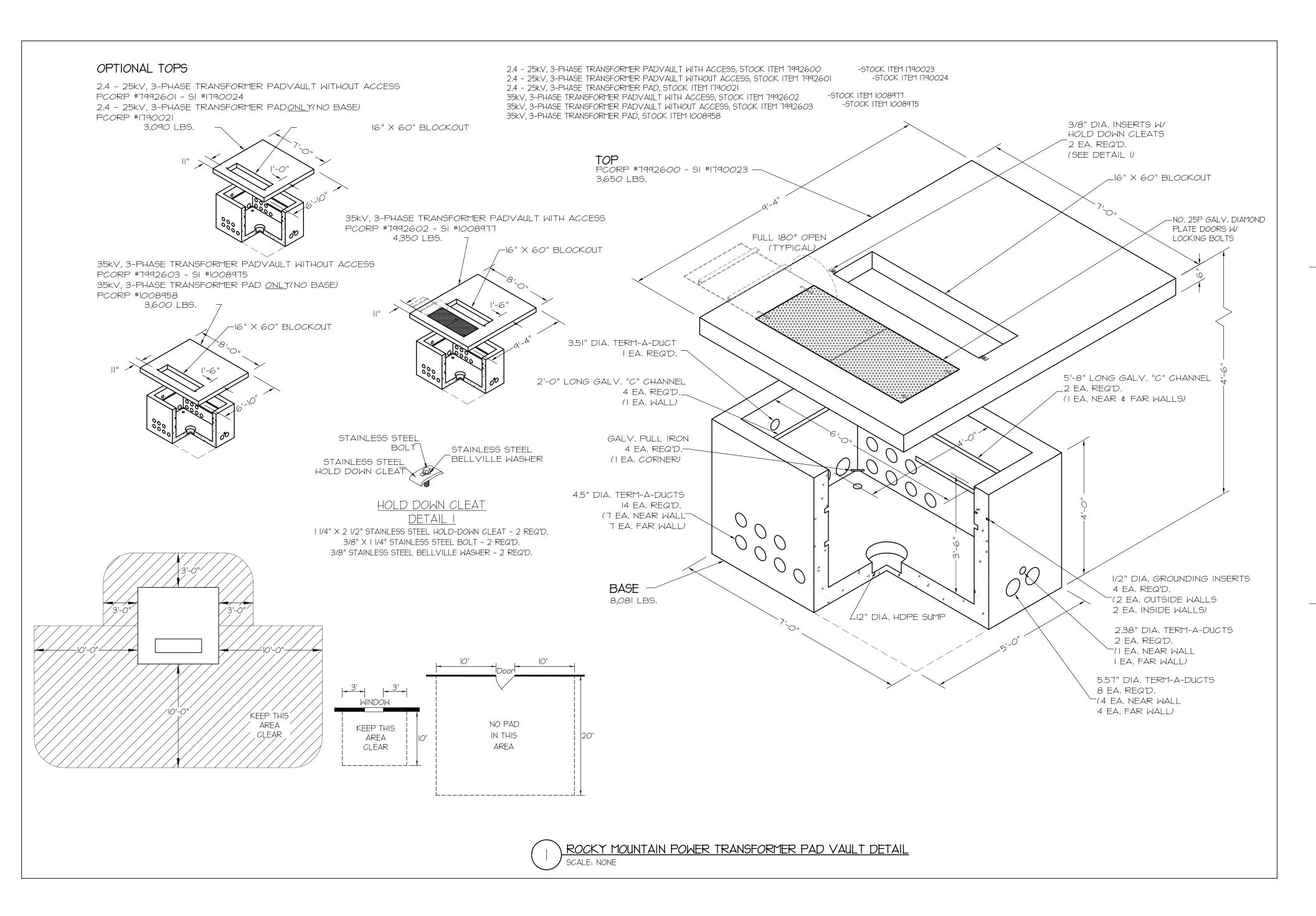
SHADING INDICATES EGRESS
LIGHT FIXTURE. CONNECT TO
UNSWITCHED HOT EMERGENCY
LIGHTING CIRCUIT.

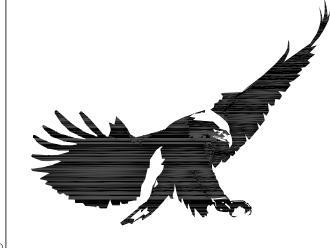
3 TYPICAL LIGHT FIXTURE CONVENTION SCALE: NONE



2 TYPICAL SWITCHING CONVENTIONS
SCALE: NONE







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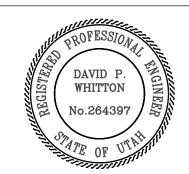
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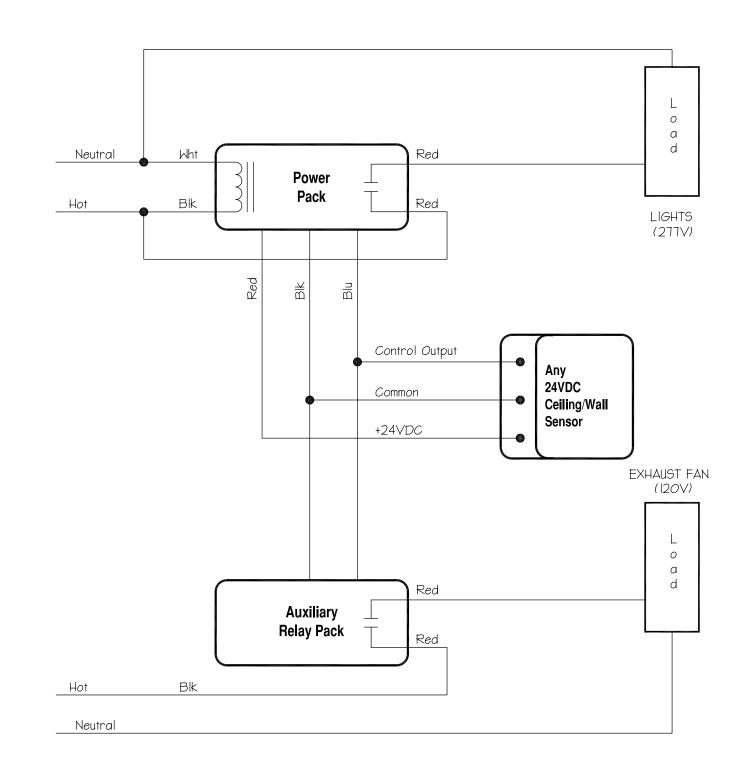
PROJECT NO. 07284110 CONTRACT NO. 087137

02/25/08 FINAL REVIEW

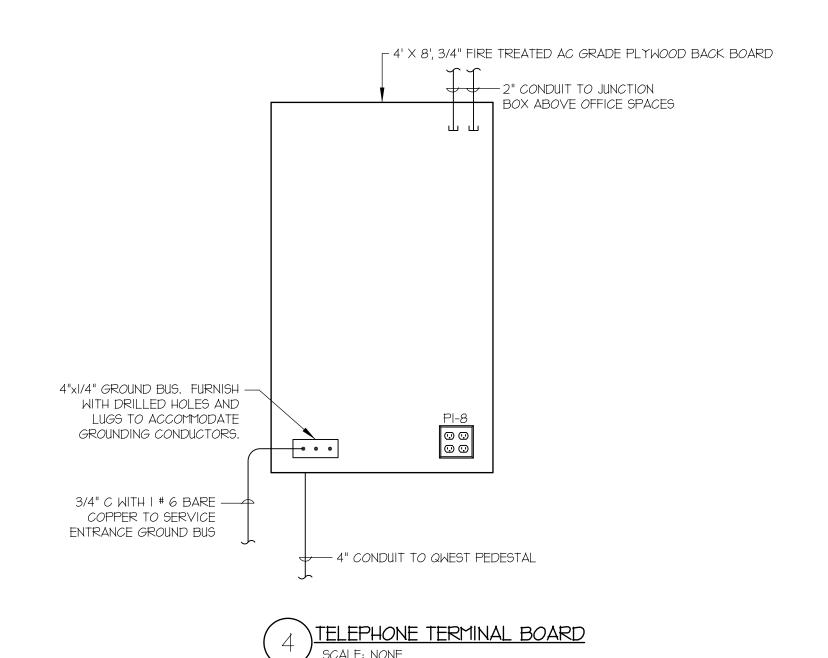
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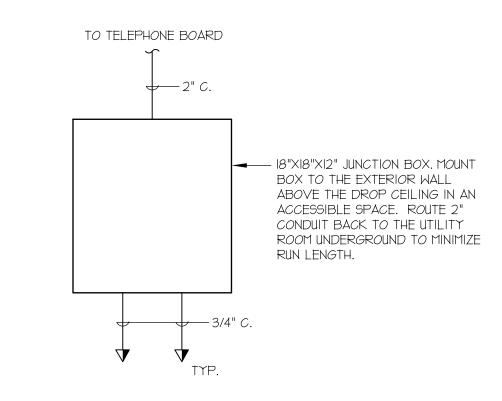
DETAILS

EG002 SHEET OF



OCCUPANCY SENSOR DUAL CIRCUIT WIRING DIAGRAM





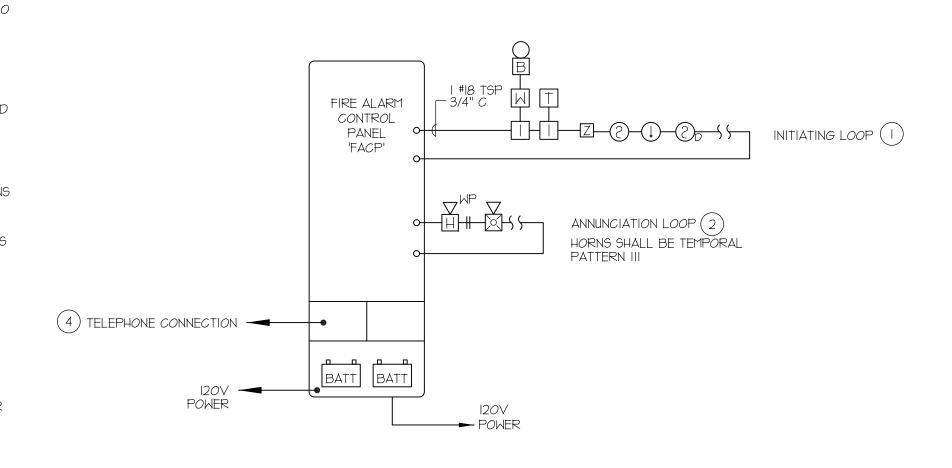
5 DATA CONDUIT JUNCTION BOX DETAIL
SCALE: NONE

FIRE ALARM SYSTEM NOTES:

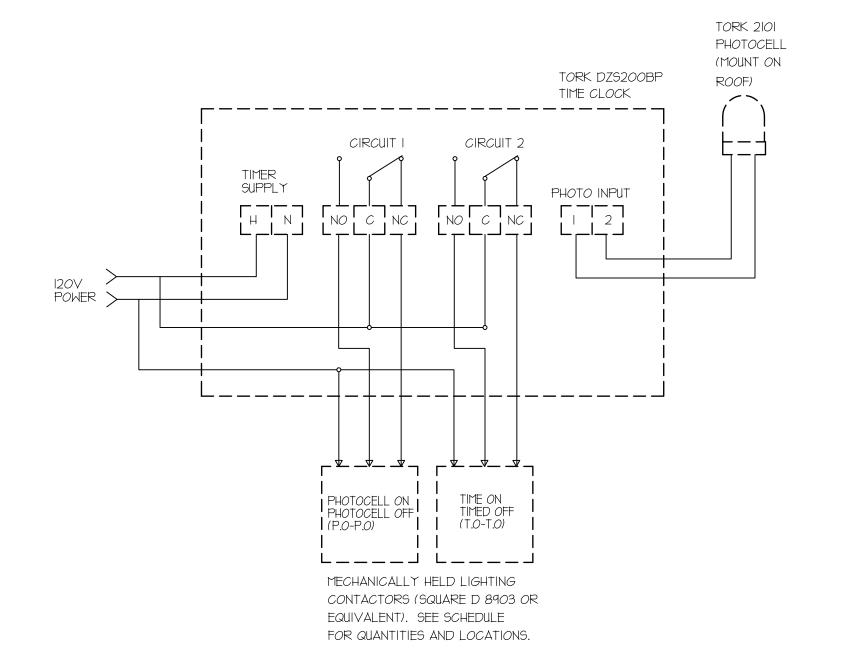
- I. PROVIDE ADDRESSABLE FIRE ALARM SYSTEM.
- CONFIRM ALL WIRING REQUIREMENTS WITH FIRE ALARM SYSTEM SUPPLIER AND PROVIDE IN ACCORDANCE THEREWITH.
- 3. THE SYSTEM SHALL BE PROGRAMMED SO THAT IF ANY INITIATION DEVICE IS ACTUATED, AN ALARM SIGNAL WHICH IS AUDIBLE THROUGHOUT THE BUILDING WILL BE ACTIVATED.
- 4. WIRING SHALL BE CONTINUOUS FROM ONE DEVICE TO ANOTHER. NO SPLICING IS ALLOWED.
- 5. ALL FIRE ALARM CABLING SHALL BE RAN IN CONDUIT. MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS NOTED OTHERWISE.

 CONTRACTOR SHALL SPRAY PAINT ALL JUNCTION BOXES

 ASSOCIATED WITH THE FIRE ALARM SYSTEM "FIRE ENGINE RED" AND LABEL "FIRE ALARM".
- 6. THE FIRE ALARM SYSTEM SUPPLIER SHALL PROVIDE A COMPUTER DRAFTED PLAN OF THE FIRE ALARM SYSTEM PER ALL REQUIREMENTS OF THE SPECIFICATIONS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- T. ALL NOTIFICATION DEVICE CIRCUIT VOLTAGE DROP CALCULATIONS SHALL BE DONE IN COMPLIANCE WITH NFPA 72 2007 SECTION 4.4.4.1. THE FIRE ALARM SYSTEM SUPPLIER TO DETERMINE THE AMOUNT NOTIFICATION DEVICE CIRCUITS THAT ARE REQUIRED BASED ON THE NUMBER OF NOTIFICATION DEVICES SHOWN ON THE DRAWINGS.
- 8. SUBMIT THE FIRE ALARM INSTALLATION DRAWINGS AND MANUFACTURERS CUTSHEETS TO THE LOCAL AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL PRIOR TO THE ROUGH-IN OF THE SYSTEM. VERIFY ALL AHJ REQUIREMENTS PRIOR TO THE SUBMITTAL.
- 9. VERIFY AND COMPLY WITH ALL LOCAL AND NATIONAL CODES.
- IO. FIRE ALARM SYSTEM SUPPLIER TO PROVIDE A COPY OF PROGRAMMING CODES AND OPERATION MANUALS IN A SLEEVED BINDER ATTACHED TO THE FIRE ALARM CONTROL PANEL.







CONTACTOR SCHEDULE									
CONTACTOR	CIRCUITS	LOAD	CONTACTOR	CONTACTOR	CONTROL				
NUMBER	CONTROLLED	DESCRIPTION	SIZE	LOCATION	MODE				
#	H−I3,I5,I7		30A-6P	UTILITY ROOM	PHOTOCELL ON,				
					PHOTOCELL OFF,				
#2	H-1,3,5,7	WAREHOUSE	30A-6P	UTILITY ROOM	TIMER ON				
		LIGHTS			TIMER OFF				

LIGHTING CONTROLS DETAIL
SCALE: NONE INTERIOR LIGHTING



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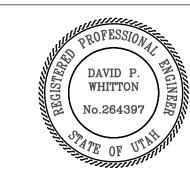
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UCI PRODUCTION WAREHOUSE

14126 PONY EXPRESS ROAD DRAPER, UT 84020

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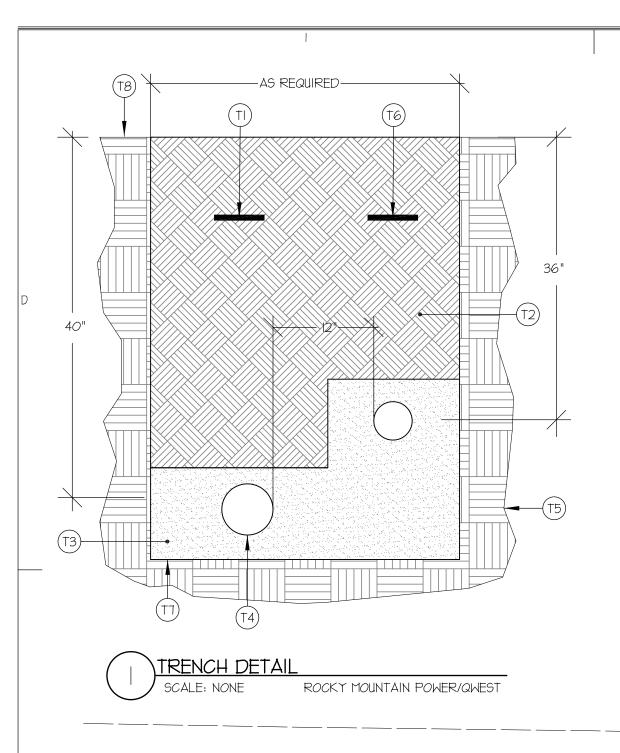
PROJECT NO. 07284110 CONTRACT NO. 087137

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CAD DWG FILE:
DRAWN BY: MCC
CHECKED BY: DPW

DETAILS AND RISER DIAGRAMS

EG003
SHEET OF



TRENCHING KEYED NOTES:

- (TI) MARKER TAPE WITH THE WORDS, "CAUTION BURIED ELECTRIC CONDUITS BELOW" DIRECTLY OVER POWER CONDUITS 6" MINIMUM BELOW GRADE.
- (T2) CLEAN BACKFILL CONTAINING NO ROCKS LARGER THAN 4" DIA.
- (T3) BACKFILL MATERIAL WITHIN 4" OF THE CONDUIT SHALL PASS THRUOGH A 3/4" SIEVE FRAME AND CONTAIN LESS THAN 30 PERCENT ROCK SOLIDS BY VOLUME.
- (T4) ALL CONDUITS SHOWN SHALL BE SCHEDULE 40 PVC.
- (T5) UNDISTURBED EARTH.
- (T6) MARKER TAPE WITH THE WORDS, "CAUTION BURIED DATA/COMMUNICATION CONDUIT BELOW" DIRECTLY OVER DATA/COMM CONDUITS.
- (TT) TRENCHES SHALL BE A UNIFORM DEPTH FOR ENTIRE LENGTH OF TRENCH SO CONDUITS CAN SIT FLAT (HORIZONTAL) WITH THE GROUND.
- (T8) FINISHED GRADE.

TRENCHING GENERAL NOTES:

- I. PROVIDE PULL ROPES IN ALL CONDUITS.
- 2. HORIZONTAL AND VERTICAL SEPARATION BETWEEN CONDUIT SHALL BE MAINTAINED BY INSTALLING HIGH IMPACT SPACERS WITH HORIZONTAL INTERVALS OF EIGHT FEET.
- 3. ALL MARKER TAPE SHALL CONTAIN #10 TRACER WIRE.
- 4. VERIFY AND COMPLY WITH ALL ROCKY MOUNTAIN POWER AND QWEST REQUIREMENTS.

SITE GENERAL NOTES: UTILITY COORDINATION REQUIREMENTS:

CT CABINET -

TELEPHONE TERMINAL BOARD -

METER BASE-

THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND

VERIFY ALL REQUIREMENTS AND LOCATIONS TO EXTEND

COORDINATION IS COMPLETE AND ALL LOCATIONS ARE

ARCHITECT AND ENGINEER A WRITTEN, SIGNED STATEMENT,

INCLUDING A SKETCH OF LOCATIONS, FROM THE UTILITY

COORDINATED AND VERIFIED ALL REQUIREMENTS. IF THE

CONTRACTOR DOES NOT COORDINATE AND VERIFY THE

REQUIREMENTS WITH THE UTILITIES OR PROVIDE A WRITTEN

ARCHITECT AND ENGINEER ALL CHANGES DUE TO LACK OF

COORDINATION WILL BE DONE AT NO ADDITIONAL EXPENSE

CONDUITS FOR UTILITY USE WITHIN 2 WEEKS OF THE

CONTRACT AWARD. THE CONTRACTOR SHALL NOT

KNOWN. THE CONTRACTOR SHALL PROVIDE TO THE

ROUGH-IN ANY CONDUITS UNTIL THE UTILITY

COMPANY NOTIFYING THEM THAT THEY HAVE

STATEMENT FROM THE UTILITY COMPANY TO THE

TO THE OWNER.

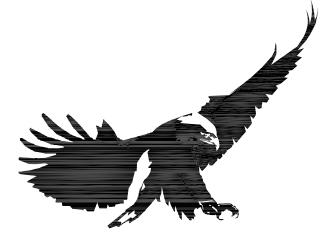
I. PROVIDE ALL REQUIRED TRENCHING, BACKFILLING, ETC. FOR ALL CONDUITS. PROVIDE REQUIRED BACKFILL MATERIALS AS DIRECTED BY EACH UTILITY.

- 2. VERIFY ALL ROCKY MOUNTAIN POWER AND QWEST REQUIREMENTS WITH EACH UTILITY PRIOR TO BID.
- 3. OWNER TO PAY ALL RELATED UP FRONT COSTS AND FEES REQUIRED BY EACH UTILITY IN THE PROJECT.
- 4. COORDINATE INSTALLATION OF SERVICE UTILITY EQUIPMENT, WITH RESPECTIVE UTILITY REPRESENTATIVE.
- 5. ROUTE CONDUITS A MINIMUM OF 2" BELOW THE BUILDING FLOOR SLAB.

KEYED NOTES:

- (I) EXTEND ONE (2) 4" CONDUIT WITH I/4" NYLON PULL ROPE FROM THE TELEPHONE TERMINAL BOARD OUT TO PONY EXPRESS ROAD FOR TELEPHONE SERVICE TO THE BUILDING. BURY THE CONDUIT A MINIMUM OF 36" BELOW GRADE. VERIFY AND COMPLY WITH ALL QWEST REQUIREMENTS.
- (2) REFER TO THE ONE-LINE DIAGRAM FOR CONDUIT AND CONDUCTOR REQUIREMENTS.
- (3) COORDINATE THE INSTALLATION OF A NEW POWER POLE WITH ROCKY MOUNTAIN POWER. THE POLE SHALL BE PROVIDED BY ROCKY MOUNTAIN POWER.

(3) NEW POWER POLE \



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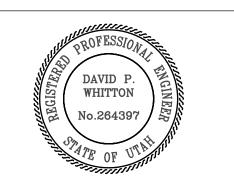
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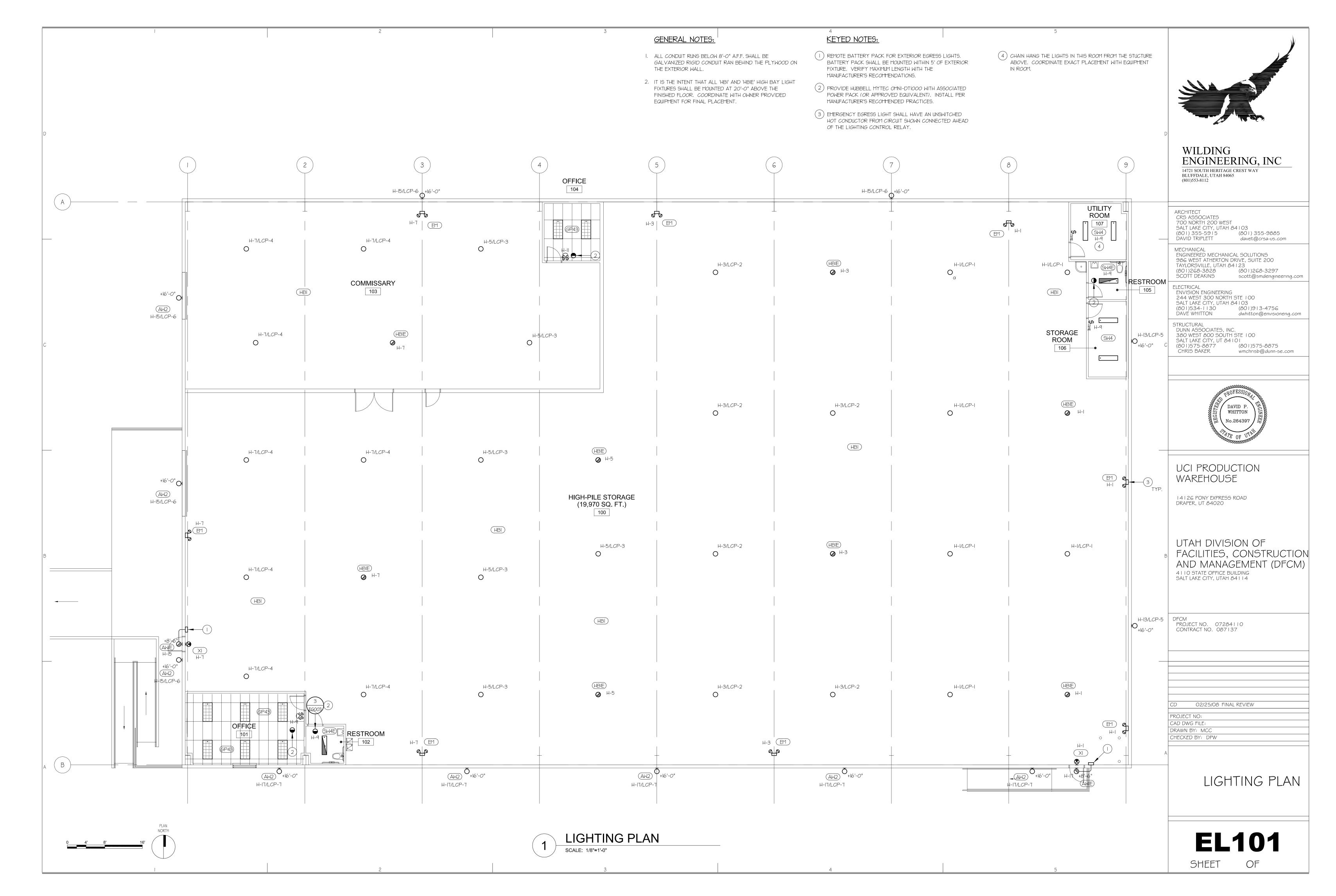
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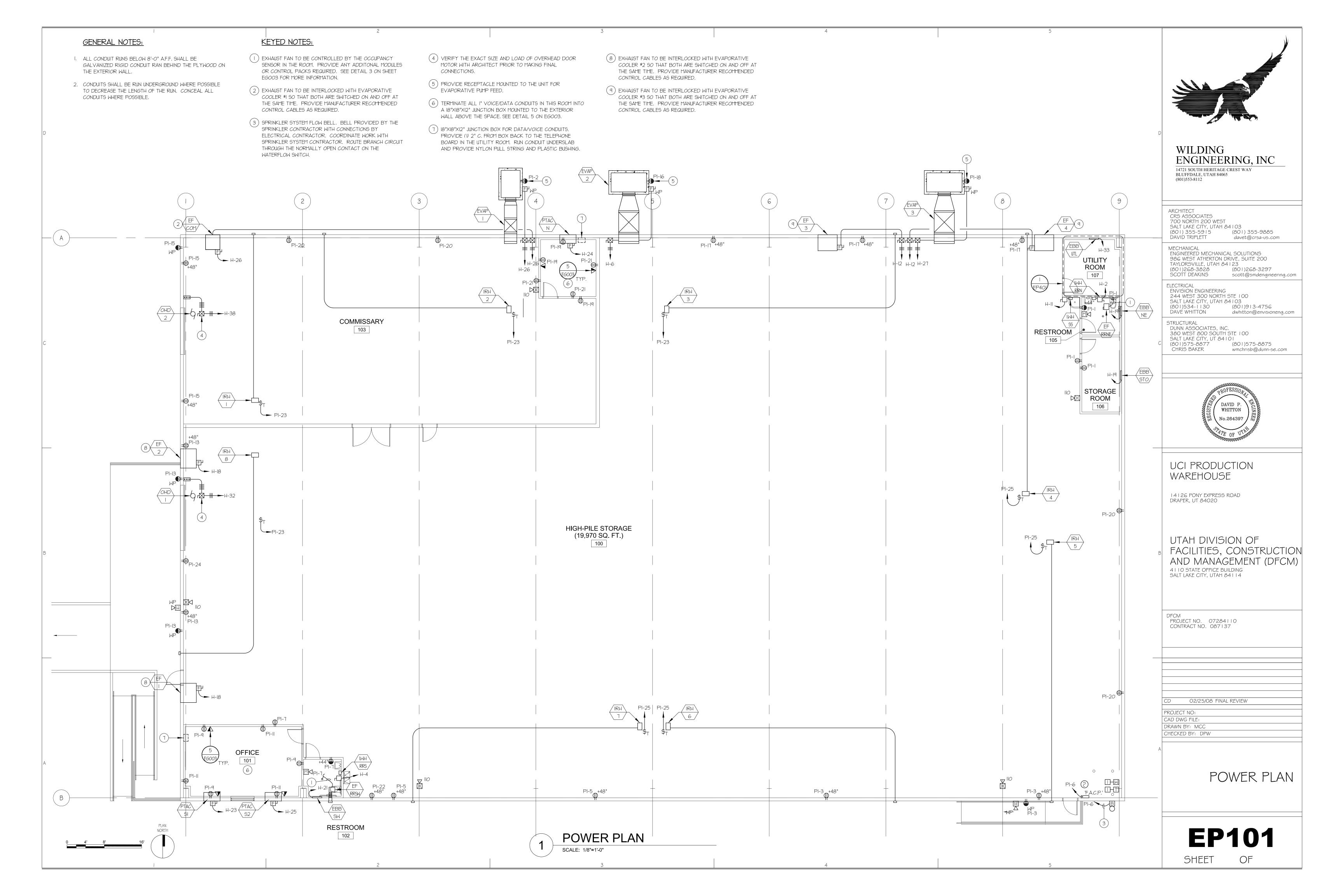
SITE PLAN

SHEET

SITE PLAN



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W:\2008-001.00 - UCI Production Warehouse\Elec\EP101.dwg, 4/3/2008 3:00:49 PM, mcartwright

	LIGHT FIXTURE ABBREVIATION SCHEDULE							
NOTE: NOT ALL ABBREVIATIONS WILL NECESSARILY BE USED.								
A.F.F.	ABOVE FINISHED FLOOR							
WALL@CLG.	WALL MOUNT AT CORNER OF WALL AND CEILING							
CCBA	CUSTOM PAINTED COLOR AS SELECTED BY THE ARCHITECT							
SCBA	STANDARD PAINTED COLOR AS SELECTED BY THE ARCHITECT							
CFBA	CUSTOM FINISH AS SELECTED BY THE ARCHITECT							
SFBA	STANDARD FINISH AS SELECTED BY THE ARCHITECT							
MOD	MODIFY STANDARD LIGHT FIXTURE AS INDICATED							

LIGHT FIXTURE GENERAL NOTES

- REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES OF LOCATIONS AND QUANTITIES TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO BIDDING.
- REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.
- REFER TO THE SPECIFICATIONS FOR OTHER LIGHT FIXTURE, BALLAST, AND LAMP REQUIREMENTS AND ACCEPTABLE
- REFER TO ARCHITECTURAL DRAWINGS FOR LOUVER REQUIREMENTS (IF ANY).
- CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL LIGHT FIXTURES AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWING. BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO RELEASE.

BIDDING REQUIREMENTS	
DIDDINO NEGGINEILINIO	

- BID ONLY PRODUCTS THAT ARE SPECIFIED OR APPROVED BY ADDENDUM.
- 2. PACKAGING OF LIGHT FIXTURES WITH OTHER SYSTEMS IS NOT ALLOWED.
- 3. WHEN ONLY ONE PRODUCT IS APPROVED FOR BIDDING, THE PRICE FOR THAT ITEM SHALL BE BROKEN OUT SEPARATELY WHEN SUBMITTING PRICING TO VARIOUS DISTRIBUTORS AND/OR CONTRACTORS.
- WHEN A CONTRADICTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER AND THE DESCRIPTION, THE DESCRIPTION SHALL GOVERN.

LIGHT FIXTURE PRIOR APPROVAL REQUIREMENTS

- I. PRIOR APPROVAL IS REQUIRED BEFORE BIDDING THIS PROJECT.
- 2. PRIOR APPROVALS SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER'S OFFICE AT LEAST (8) EIGHT WORKING DAYS BEFORE THE BID. PRIOR APPROVALS RECEIVED AFTER THIS TIME PERIOD SHALL BE REJECTED.
- PRIOR APPROVALS SHALL BE SIGNED BY A PRINCIPAL OF THE SUBMITTING ORGANIZATION STATING THAT THEY HAVE PREPARED AND/OR REVIEWED THE SUBMITTAL AND THAT THE PRODUCTS PROPOSED ARE EQUIVALENT TO THOSE SPECIFIED. ANY EXCEPTIONS SHALL BE SO NOTED.
- 4. ITEMS THAT ARE SUBMITTED AND HAVE BEEN APPROVED WILL BE LISTED IN THE ADDENDUM(S). VERBAL APPROVAL WILL NOT <u>BE</u> GIVEN ON ANY ITEM.
- 5. IT IS NOT THE RESPONSIBILITY OF THE ELECTRICAL ENGINEER TO NOTIFY THE SUBMITTING PARTY OF ERRORS IN THE SUBMITTAL. NOTIFICATION OF ERRORS BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE ADDENDUM(S) MAY NOT BE GIVEN.
- 6. PRIOR APPROVALS SHALL CONSIST OF TWO SETS OF CUT SHEETS DESCRIBING THE PRODUCTS BEING SUBMITTED AS EQUIVALENTS. FAXES ARE <u>NOT</u> ACCEPTABLE. ALL SPECIFICATION INFORMATION SHALL BE CLEARLY MARKED, WITH NON-APPLICABLE INFORMATION CROSSED OUT. COMPLETE PHOTOMETRIC DATA SHALL BE PROVIDED. PRODUCTS WITHOUT PHOTOMETRIC DATA WILL BE NOT BE APPROVED.

LIGHT FIXTURE SCHEDULE												
TYPE	MANUFACTURER	SERIES	DESCRIPTION		LOAD (VA)	MOUNTING		LAMPS		I		REMARKS
				VOLTAGE			NUMBER	TYPE	WATTS	COLOR (KELVIN)	CRI	
AMIE	HUBBELL SPERO LITHONIA	NRG-304B WLV-42CFL-I2O-DB TWL-42TRT-277-PE-LPI-9CBA	CAST ALUMNUM RECTANGULAR WALL PACK POLYCARBONITE LENS WET LOCATION RATED REMOTE EMERGENCY PACK WITH SEALED N-CD BATTERY	211	42	WALL	I	42W COMPACT FLUORESCENT	42	35 <i>00</i> K		
AW2	HUBBELL SPERO LITHONIA	PGL-250H-128-1-L WLH-250-P9MH-MT-DB TWH-250M-277-LPI	CAST ALUMINUM WALL PACK GLASS LENS WET LOCATION RATED PULSE START, VERTICAL LAMP	277	296	MALL	I	VERTICAL LAMP METAL HALIDE	250	4000K		
EM	DUAL-LITE ISOLITE LITHONIA	ASI80-12V ELS-12-200-2-TM-9W ELTI80	ADJUSTIBLE EMERGENCY WALL PACK MAINTENANCE FREE BATTERY TEST SWITCH AND AC-ON LIGHT 90 MINUTE OPERATION	277	N/A	WALL	2	INCANDESCENT PAR 36	7.2	3000K		
<i>G</i> P43	COLUMBIA METALUX LITHONIA	P4D24-332-LD-36-S-EPU 2EP3GX-332S361-UNV-ER8I 2PM3N-G-B-3-32-I8LD-MV0LT-I/3-GEBI0RS	2'x4' SPECIFICATION GRADE PARABOLIC TROFFER 18 CELL SEMI SPECULAR LOW IRRIDESCENT LOUVERS PROGRAMMED START, UNIVERSAL VOLTAGE ELECTRONIC BALLAST(S): QTY: I; THD: <10%	211	96	RECESSED	3	48" LINEAR T8 FLUORESCENT	32	35 <i>00</i> K		
HBI	HUBBELL LUMARK LITHONIA	CH-25W8-D MPV-AL-250-QD TX-250M-AI65-277	SPECIFICATION GRADE HI-BAY TRIANGULAR SHAPE REFRACTOR PULSE START	211	296	SUSPENDED	I	VERTICAL METAL HALIDE	250	4000K		
HBIE	HUBBELL LUMARK LITHONIA	CH-25W8-D-QST MPV-AL-250-QD-Q TX-250M-AI65-277-QRS-UPMI	SPECIFICATION GRADE HI-BAY TRIANGULAR SHAPE REFRACTOR PULSE START QUARTZ RE-STRIKE	211	296	SUSPENDED	I	VERTICAL METAL HALIDE QUARTZ LAMP	250	4000K		
SW4	COLUMBIA METALUX LITHONIA	WC4-232-EPU WS-232A-UNV-ER8I LB-2-32-MV <i>O</i> LT- <i>G</i> EBI <i>O</i>	4' SURFACE WRAP CLEAR ACRYLIC PRISMATIC DIFFUSER PROGRAMMED START, UNIVERSAL VOLTAGE ELECTRONIC BALLAST(S): QTY: I; THD: <10%	277	64	SURFACE	2	48" LINEAR T8 FLUORESCENT	32	35 <i>00</i> K		
SW4E	COLUMBIA METALUX LITHONIA	WC4-232-EPU-EL WS-232A-UNV-ER8I-EL-I32 LB-2-32-MVOLT-GEBIO-EL	4' SURFACE WRAP CLEAR ACRYLIC PRISMATIC DIFFUSER PROGRAMMED START, UNIVERSAL VOLTAGE ELECTRONIC BALLAST(S): QTY: I; THD: <10% EMERGENCY BATTERY PACK	277	64	SURFACE	2	48" LINEAR T8 FLUORESCENT	32	35 <i>00</i> K		
XI	DUAL-LITE ISOLITE LITHONIA	CVDIGEW LPDC-EM-G-S-WW-UN LV-S-W-I-G-120/277-UM	CAST ALUMINUM LED EXIT SIGN WHITE HOUSING WITH GREEN LETTERING EMERGENCY BATTERY PACK	217	5	UNIVERSAL	N/A	GREEN LED	5	-		
					<u> </u>		<u> </u>					

KEYED NOTES:

SEE CONTINUATION ON SHEET ESIOI.

2 EXTEND 3/4" CONDUIT OUT 5' FROM THE FRONT OF THE BUILDING FOR FUTURE IRRIGATION CONTROL.

CONTACTOR-TIME CLOCK-

	REMARKS		
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			ENGII 986
			TAYL((80 SCO
			ELECT
			ENVI 244 SALT
			(80 I DAVE
			STRUC
			DUNN 380 SALT
		С	(80 I CHR



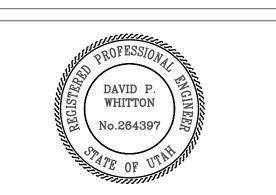
WILDING ENGINEERING, INC 721 SOUTH HERITAGE CREST WAY LUFFDALE, UTAH 84065 01)553-8112

ASSOCIATES NORTH 200 WEST T LAKE CITY, UTAH 84103 (801) 355-9885 ID TRIPLETT davet@crsa-us.com

SINEERED MECHANICAL SOLUTIONS WEST ATHERTON DRIVE, SUITE 200 LORSVILLE, UTAH 84123 1)268-3828 (801)268-3297 DTT DEAKINS scott@smdengineering.com

ISION ENGINEERING WEST 300 NORTH STE 100 T LAKE CITY, UTAH 84103 1)534-1130 (801)913-4756 dwhitton@envisioneng.com É WHITTON

NN ASSOCIATES, INC.) WEST 800 SOUTH STE 100 T LAKE CITY, UT 84101 1)575-8877 (801)575-8875 RIS BAKER wmchrisb@dunn-se.com



UCI PRODUCTION WAREHOUSE

14126 PONY EXPRESS ROAD DRAPER, UT 84020

UTAH DIVISION OF FACILITIES, CONSTRUCTION AND MANAGEMENT (DFCM) 4110 STATE OFFICE BUILDING SALT LAKE CITY, UTAH 84114

PROJECT NO. 07284110 CONTRACT NO. 087137

02/25/08 FINAL REVIEW

PROJECT NO: CAD DWG FILE: DRAWN BY: MCC CHECKED BY: DPW

- IRRIGATION TIMER

ENLARGED DRAWINGS \$ SCHEDULES

EP401 SHEET

						EQUIPM	ENI 50	HEDU.	<u> </u>								
UNIT							CONDUIT	WIRES			STARTER / DISCO	NNECT/ C	ONNECTI	ON AT UI	VIΤ	POWER FACTOR	REMARKS
NAME	DESCRIPTION	LOAD	TYPE	VOLTAGE	PHASE	AMPERAGE	SIZE					OCP		DISCON	NECT	CORRECTION CAPACITOR	
								NO.	SIZE	NOTE	STARTER SIZE	SIZE	POLES	SIZE	POLES	(KVAR)	
EDD UE		100	114 ##	077		1.5	0.41		10	10.4							
EBB-NE	ELECTRIC BASEBOARD HEATER	400	WATTS	277	<u> </u>	1.5	3/4"	2	12	I2A		-	-	-	-		
EBB-SW	ELECTRIC BASEBOARD HEATER	400	WATTS	277	<u> </u>	1.5	3/4"	2	10	I2A		-	-	-	-		
EBB-STO	ELECTRIC BASEBOARD HEATER	400	WATTS	277	<u> </u>	1.5	3/4"	2	12	I2A		-	-	-	-		
EBB-UTL	ELECTRIC BASEBOARD HEATER	400	WATTS	277	I	1.5	3/4"	2	12	I2A	-	-	-	-	-		
EF-I	EXHAUST FAN	3/4	HP	480	3	1.6	3/4"	3	10	4A/IOA	NEMA O	15	3	30	3		INTER LOCK W/ EVAP
EF-2	EXHAUST FAN	3/4	HP	480	3	1.6	3/4"	3	10	4A/IOA	NEMA O	15	3	30	3		INTER LOCK W/ EVAP
EF-3	EXHAUST FAN	3/4	HP	480	3	1.6	3/4"	3	12	4A/IOA	NEMA O	15	3	30	3		INTER LOCK W/ EVAP
EF-4	EXHAUST FAN	3/4	HP	480	3	1.6	3/4"	3	12	4A/IOA	NEMA O	15	3	30	3		INTER LOCK W/ EVAP
EF-COM	EXHAUST FAN	3/4	HP	480	3	1.6	3/4"	3	12	4A/IOA	NEMA O	15	3	30	3		INTER LOCK W/ EVAF
EF-RRNE	EXHAUST FAN	N/A	N/A	120	Ī	5.8	3/4"	2	12	I2A	-	-	-	-	-		SWITCH WITH LIGHTS
EF-RRSW	EXHAUST FAN	N/A	N/A	120	i I	5.8	3/4"	2	12	12A		-	_	-	-		SWITCH WITH LIGHTS
LI INIXOM	LAIMUULTAIN	IVA	17/74	120	1	7.0	3/7		12	124							ONTOR MITE LIONIS
EVAP-I	EVAPORATIVE COOLER (FAN MOTOR / PUMP MOTOR)	1.5 / .5	HP / HP	480 / 120	3/1	3 / 9.8	3/4"	5	12	4A /IOA/I3A	NEMA I	20	3	30	3		
EVAP-2	EVAPORATIVE COOLER (FAN MOTOR / PUMP MOTOR)	7.5 / .5	HP / HP	480 / 120	3 / I	11 / 9.8	3/4"	5	12	4A /IOA/I3A	NEMA I	20	3	30	3		
EVAP-3	EVAPORATIVE COOLER (FAN MOTOR / PUMP MOTOR)	7.5 / .5	HP / HP	480 / 120	3/1	11 / 9.8	3/4"	5	12	4A /IOA/I3A	NEMA I	20	3	30	3		
IRH-I	INFRARED RADIANT HEATER		FLA	120	1	1.0	3/4"	2		IA IA		_	_	IHP			
IRH-2	INFRARED RADIANT HEATER	+ ;	FLA	120	1	1.0	3/4"	2	12	IA IA		-	_	THP	 		
IRH-3	INFRARED RADIANT HEATER	+ ;	FLA	120	1	1.0	3/4"	2	12	IA IA	-	 -	-	IHP			
IRH-4	INFRARED RADIANT HEATER	+ ;	FLA	120	ı	1.0	3/4"	+	12	IA IA		_	-	THP			
IRH-5	INFRARED RADIANT HEATER	+	FLA	120	1	1.0	3/4"	2	12	IA IA		-	-	THP			
IRH-6				120	1		3/4"			IA IA	-		_				
	INFRARED RADIANT HEATER	+	FLA		ı	1.0		2	12	- " '	-	-	-	IHP	+		
IRH-7	INFRARED RADIANT HEATER	+ +	FLA	120	I	1.0	3/4"	2	12	IA IA		-	-	IHP			
IRH-8	INFRARED RADIANT HEATER	+ '	FLA	120	ı	1.0	3/4"	2	12	IA IA		-	-	I HP			
IWH-RRN	INSTANTANEOUS ELECTRIC WATER HEATER	6	KW	277	ı	22.0	3/4"	2	10	9A		-	_	30	2		
IWH-RRS	INSTANTANEOUS ELECTRIC WATER HEATER	6	KW	277	1	22.0	3/4"	2	10	9A	_	-	-	30	2		
IWH-SS	INSTANTANEOUS ELECTRIC WATER HEATER	10	KW	277	I	36.0	3/4"	2	8	9A	-	-	-	60	2		
OHD-I	OVERHEAD DOOR	N/A	N/A	480	3	25.0	3/4"	3	8	4Δ	NEMA I	30	3	30	3		
OHD-2	OVERHEAD DOOR	N/A	N/A	480	3	25.0	3/4"	3	8	4A	NEMA I	30	3	30	3		
PRV-I												1					
PTAC-N	PACKAGED TERMINAL AIR CONDITIONER	24.3	MCA	277	I	22.0	3/4"	2	8	IOA		25		30	2		
PTAC-SI	PACKAGED TERMINAL AIR CONDITIONER	24.3	MCA	277	I	22.0	3/4"	2	4	IOA		25		30	2		
PTAC-92	PACKAGED TERMINAL AIR CONDITIONER	24.3	MCA	277	ı	22.0	3/4"	2	4	IOA		25	 	30	2		
1 1AU-UZ	I AUNAULU ILINIIIVAL AIN UUNUITIUNEN	24.0	IIVA	211	ı	22.0	J/4		+ +	IVA		1 23	 	1 30	+ -		
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L' 2	EXTRACT FAIT] 5/ 1	1 "	100		1.0] 5/ 1	1 2	10		INEL IA O	1 15		1 50	-	INTER ECON WEVAL 2
EF-3	EXHAUST FAN	3/4	HP	480	3	1.6	3/4"	3	12	4A/IOA	NEMA O	15	3	30	3	INTER LOCK W/ EVAP-3
EF-4	EXHAUST FAN	3/4	HP	480	3	1.6	3/4"	3	12	4A/IOA	NEMA O	15	3	30	3	INTER LOCK W/ EVAP-3
EF-COM	EXHAUST FAN	3/4	HP	480	3	1.6	3/4"	3	12	4A/IOA	NEMA O	15	3	30	3	INTER LOCK W/ EVAP-I
EF-RRNE	EXHAUST FAN	N/A	N/A	120		5.8	3/4"	2	12	I2A	-	-	-	-	-	SWITCH WITH LIGHTS
EF-RRSW	EXHAUST FAN	N/A	N/A	120		5.8	3/4"	2	12	I2A	-	-	-	-	-	SWITCH WITH LIGHTS
EVAP-I	EVAPORATIVE COOLER (FAN MOTOR / PUMP MOTOR)	1.5 / .5	HP / HP	480 / 120	3 / I	3 / 9.8	3/4"	5	12	4A /IOA/I3A	NEMA I	20	3	30	3	
EVAP-2	EVAPORATIVE COOLER (FAN MOTOR / PUMP MOTOR)	7.5 / .5	HP / HP	480 / 120	3 / I	11 / 9.8	3/4"	5	12	4A /IOA/I3A	NEMA I	20	3	30	3	
EVAP-3	EVAPORATIVE COOLER (FAN MOTOR / PUMP MOTOR)	7.5 / .5	HP / HP	480 / 120	3 / I	11 / 9.8	3/4"	5	12	4A /IOA/I3A	NEMA I	20	3	30	3	
IRH-I	INFRARED RADIANT HEATER	I	FLA	120		1.0	3/4"	2	12	IA	-	-	-	I HP		
IRH-2	INFRARED RADIANT HEATER	I	FLA	120		1.0	3/4"	2	12	IA	-	-	-	I HP		
IRH-3	INFRARED RADIANT HEATER	I	FLA	120		1.0	3/4"	2	12	IA	-	-	-	I HP		
IRH-4	INFRARED RADIANT HEATER	I	FLA	120		1.0	3/4"	2	12	IA	-	-	-	I HP		
IRH-5	INFRARED RADIANT HEATER	I	FLA	120		1.0	3/4"	2	12	IA	-	-	-	I HP		
IRH-6	INFRARED RADIANT HEATER	I	FLA	120		1.0	3/4"	2	12	IA	-	-	-	I HP		
IRH-7	INFRARED RADIANT HEATER	I	FLA	120		1.0	3/4"	2	12	IA	-	-	-	I HP		
IRH-8	INFRARED RADIANT HEATER	I	FLA	120		1.0	3/4"	2	12	IA	-	-	-	I HP		
IWH-RRN	INSTANTANEOUS ELECTRIC WATER HEATER	6	KW	277		22.0	3/4"	2	10	9A	-	-	-	30	2	
IWH-RRS	INSTANTANEOUS ELECTRIC WATER HEATER	6	KW	277		22.0	3/4"	2	10	9A	-	-	-	30	2	
IWH-SS	INSTANTANEOUS ELECTRIC WATER HEATER	10	KW	277		36.0	3/4"	2	8	9A	-	-	-	60	2	
OHD-I	OVERHEAD DOOR	N/A	N/A	480	3	25.0	3/4"	3	8	4A	NEMA I	30	3	30	3	
OHD-2	OVERHEAD DOOR	N/A	N/A	480	3	25.0	3/4"	3	8	4A	NEMA I	30	3	30	3	
PRV-I																
PTAC-N	PACKAGED TERMINAL AIR CONDITIONER	24.3	MCA	277		22.0	3/4"	2	8	IOA	-	25	I	30	2	
PTAC-SI	PACKAGED TERMINAL AIR CONDITIONER	24.3	MCA	277		22.0	3/4"	2	4	IOA	-	25	I	30	2	
PTAC-S2	PACKAGED TERMINAL AIR CONDITIONER	24.3	MCA	277		22.0	3/4"	2	4	IOA	-	25	I	30	2	
		-	-							•						·
ZE ALL FUSES	IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.															

STARTER / DISCONNECT NOTES:

- I. MANUAL STARTER WITH THERMAL OVERLOAD
- 2. MANUAL STARTER WITH THERMAL OVERLOAD PROTECTION & LOW VOLTAGE RELAY / CONTACTOR FOR ATC CONTROL
- 3. COMBINATION MAGNETIC STARTER / FUSED DISCONNECT
- 4. COMBINATION MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR (MCP) 5. COMBINATION VARIABLE FREQUENCY DRIVE / MOTOR CIRCUIT PROTECTOR (MCP)
- 6. REDUCED VOLTAGE STARTER
- 7. COMBINATION TWO-SPEED STARTER / FUSED DISCONNECT 8. COMBINATION TWO-SPEED STARTER / MOTOR CIRCUIT PROTECTOR (MCP)

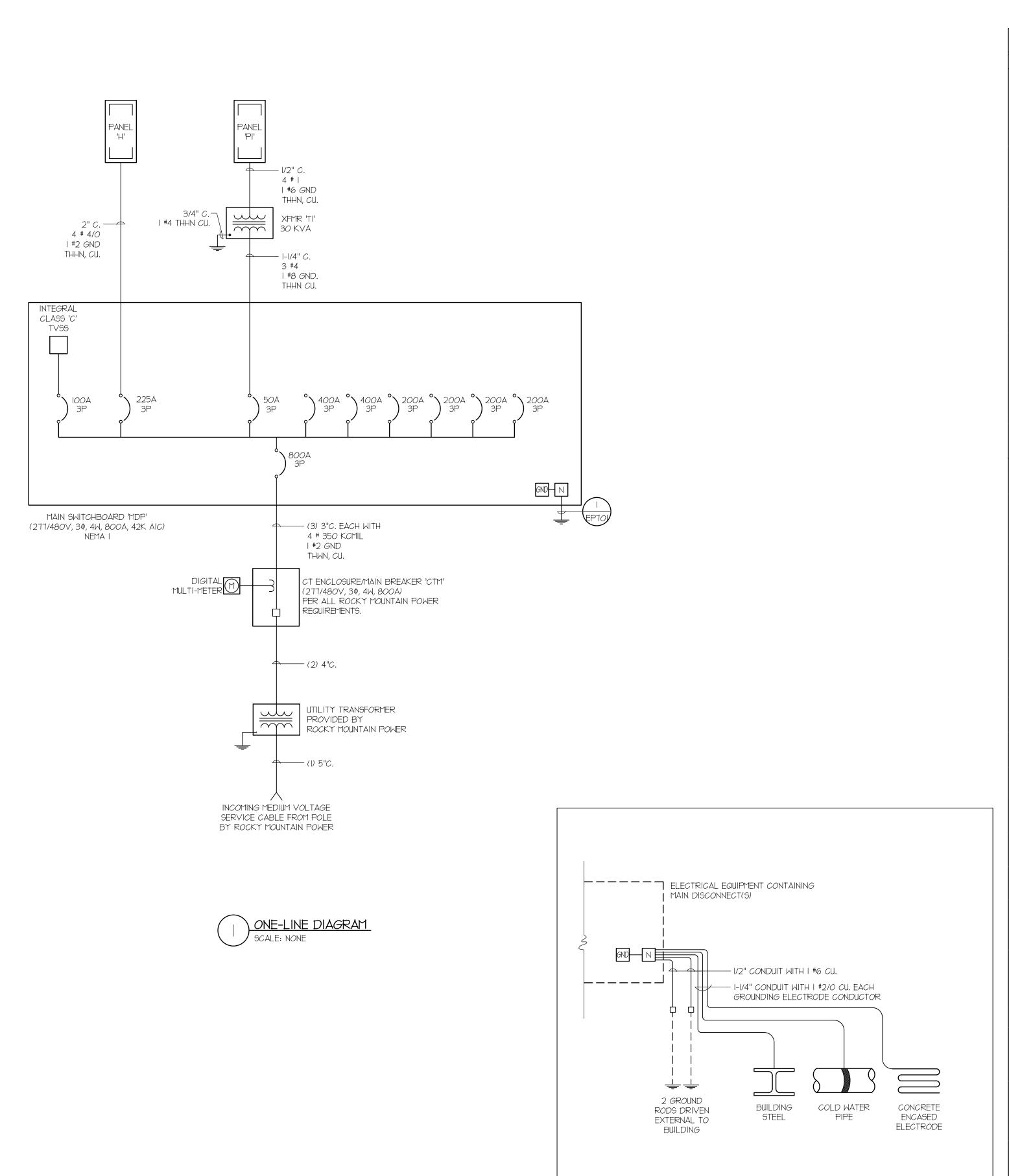
INSTALLATION NOTES:

- 9. NON-FUSED DISCONNECT SWITCH
- IO. FUSED DISCONNECT SWITCH
- II. BREAKER AND ENCLOSURE 12. DIRECT CONNECTION
- 13. DUPLEX RECEPTACLE OUTLET
- 14. SPECIAL PURPOSE OUTLET 15. SHUNT-TRIP BREAKER AND ENCLOSURE 16. TOGGLE SWITCH

17. MAGNETIC STARTER

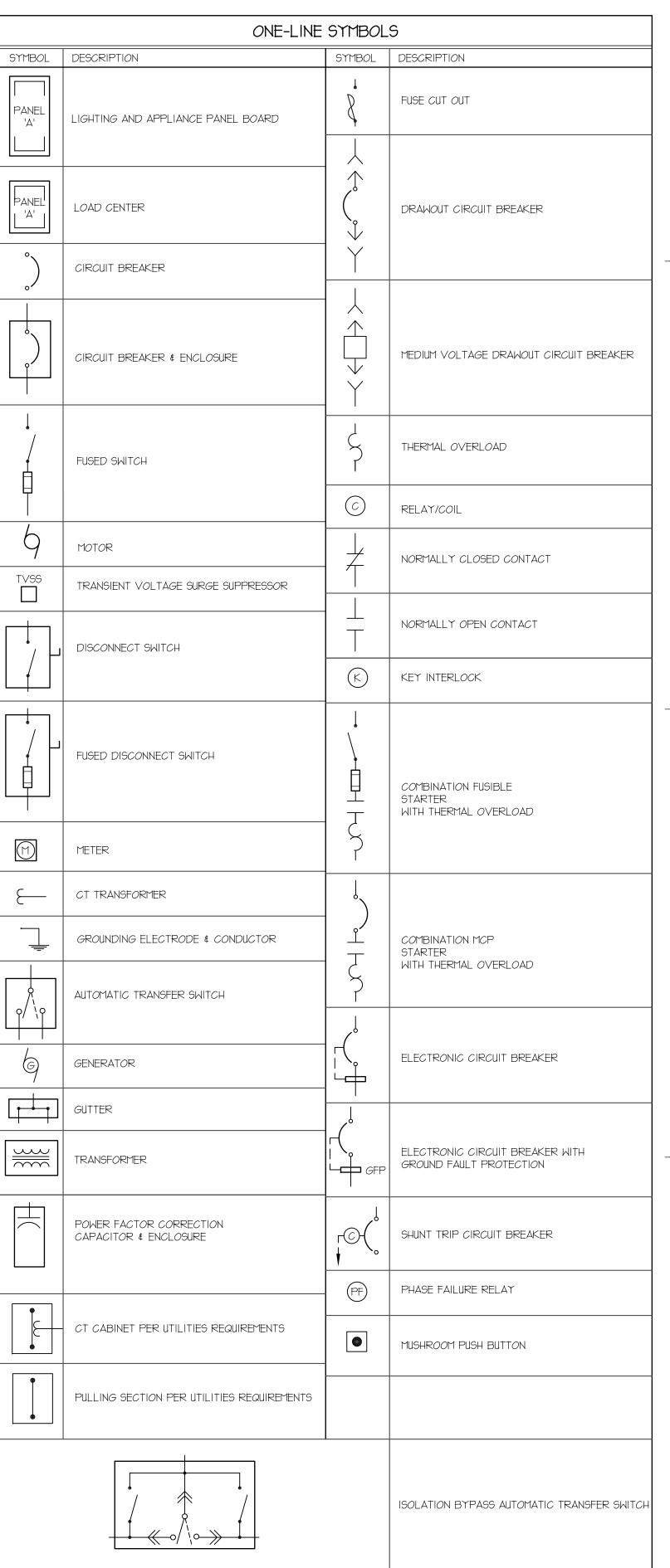
- - A. FURNISHED, INSTALLED, & CONNECTED UNDER DIVISION 16. B. FURNISHED & INSTALLED UNDER ANOTHER DIVISION REQUIRING CONNECTIONS UNDER DIVISION 16.
 - AND CONNECTED UNDER DIVISION 16.

C. FURNISHED UNDER ANOTHER DIVISION BUT INSTALLED D. FURNISHED, INSTALLED, & CONNECTED UNDER ANOTHER DIVISION E. FURNISHED BY OWNER, INSTALLED & CONNECTED BY DIVISION 16



GROUNDING DETAIL

SCALE: NONE





WILDING ENGINEERING, INC 14721 SOUTH HERITAGE CREST WAY BLUFFDALE, UTAH 84065 (801)553-8112

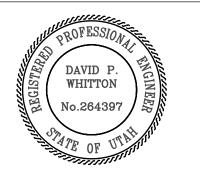
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CHRIS BAKER wmchrisb@dunn-se.com



UCI PRODUCTION WAREHOUSE

14126 PONY EXPRESS ROAD DRAPER, UT 84020

UTAH DIVISION OF
FACILITIES, CONSTRUCTION
AND MANAGEMENT (DFCM)
4110 STATE OFFICE BUILDING
SALT LAKE CITY, UTAH 84114

PROJECT NO. 07284110 CONTRACT NO. 087137

CD 02/25/08 FINAL REVIEW
PROJECT NO:

CAD DWG FILE:

DRAWN BY: MCC
CHECKED BY: DPW

ONE-LINE DIAGRAM

EP701 SHEET OF



2006 IECC

Report Date: 02/26/08

Data filename: W:\2008-001.00 - UCI Production Warehouse\Misc\Calculations\UCIWarehouse.cck

Section 1: Project Information

Project Title:

Construction Site: Owner/Agent: Designer/Contractor:

Section 2: General Information

Building Use Description by: Activity Type

Project Type: New Construction

Activity Type(s) <u>Floor Area</u> Warehouse

Section 3: Requirements Checklist

Interior Lighting:

1. Total actual watts must be less than or equal to total allowed watts. 9588

Exterior Lighting:

2006 IECC Report Date:

Warehouse

Warehouse (24550 sq.ft.)

2. Efficacy greater than 45 lumens/W. Exceptions:

Specialized lighting highlighting features of historic buildings; signage; safety or security lighting; low-voltage landscape

☐ 3. Comply with Sections 505.2.4 and 505.6 of IECC 2006 and attach documentation.

Controls, Switching, and Wiring:

☐ 4 Independent controls for each space (switch/occupancy sensor) Exceptions:

Areas designated as security or emergency areas that must be continuously illuminated.

Lighting in stairways or corridors that are elements of the means of egress.

5. Master switch at entry to hotel/motel guest room. ☐ 6. Individual dwelling units separately metered.

7. Each space provided with a manual control to provide uniform light reduction by at least 50%.

Only one luminaire in space;

An occupant-sensing device controls the area;

The area is a corridor, storeroom, restroom, public lobby or sleeping unit.

Areas that use less than 0.6 Watts/sq.ft. ☐ 8. Automatic lighting shutoff control in buildings larger than 5,000 sq.ft.

Sleeping units, patient care areas; and spaces where automatic shutoff would endanger safety or security.

COMcheck Software Version 3.4.2

Data filename: W:\2008-001.00 - UCI Production Warehouse\Misc\Calculations\UCIWarehouse.cck

If the Total Allowed Watts minus the Total Actual Watts is greater than or equal to zero, the building complies.

Section 1: Allowed Lighting Power Calculation

Section 2: Actual Lighting Power Calculation

A Fixture ID:Description / Lamp / Wattage Per Lamp / Ballast

A Area Category

Linear Fluorescent 1: SW4/CR4: 48" T8 32W / Electronic

Linear Fluorescent 2: GP43: 48" T8 32W / Electronic

Section 3: Compliance Calculation

Lighting PASSES: Design 51% better than code.

HID 1: HB1: Metal Halide 250W / Electronic

Lighting Application Worksheet

Watts / ft2

0.8 Total Allowed Watts = 19640

B C D E
Lamps/ # of Fixture (C X D)
Fixture Fixtures Watt.

2 5 64 320 8 96 768

> 34 250 8500 Total Actual Watts = 9588

Total Allowed Watts = 19640

Total Actual Watts = 9588 Project Compliance = 10052

(B x C)

19640

Page 1 of 3

9. Photocell/astronomical time switch on exterior lights.

Lighting intended for 24 hour use.

☐ 10. Tandem wired one-lamp and three-lamp ballasted luminaires (No single-lamp ballasts).

Electronic high-frequency ballasts; Luminaires on emergency circuits or with no available pair.

Section 4: Compliance Statement

Compliance Statement: The proposed lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2006 IECC requirements in COMcheck Version 3.4.2 and to comply with the mandatory requirements in the Requirements Checklist.

Name - Title

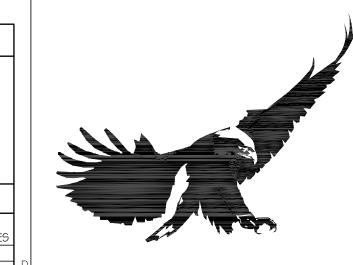
Page 2 of 3

				LIG	HTIN	G AND	APP!	_IANC	E PAN	ELB04	ARD S	CHED	ULE				
F	PANEL NAME:'H'	_ TYPE:		NF	CIRCUIT -	BREAKERS:	BOLT ON PLUG ON		277 /	480	V <i>o</i> ltage		3	_PH	4	_ M	
	ENGRAVED NAME TAGS	BUS M	ATERIAL:	ALUM I	3US S	GROUND:	X GROUND ISOL GNI	BUS D BUS	NEUTRAL:	X 100% 200%		X	MAIN SUB-FEED FEED-THE)	MΔ	AIN BREAKER: AMPSBUS AMPS:225	
							BF	RANCH	BREAK	ERS							
				WIRE	CIR.	LE	FT PHASE LO	OAD	RIG	SHT PHASE L	.OAD	CIR.	AMP		WIRE		Т
NOTES	ITEM	AMP	POLE	SIZE	NO.	А	В	С	А	В	С	NO.		POLE	SIZE	ITEM	NOT
	WAREHOUSE LIGHTING	20	I	10	I	2500			6094			2	30	I	10	IWH-RRN WATER HEATER	
	WAREHOUSE LIGHTING	20	1	10	3		2500			6094		4	30	1	8	IWH-RRS WATER HEATER	
	WAREHOUSE LIGHTING	20		10	5			2500			3045	6	20	3	12	EVAP-2	
	WAREHOUSE LIGHTING	20	I	10	7	2500			3045			8	-	-	-	-	\bot
	SMALL ROOM LIGHTING	20	I	12	9		1088			3045		10	-	-	-	-	
	IWH-SS WATER HEATER	40	1	10	ll ll			10000			830	12	20	3	12	EF-3,EF-4	
	EXTERIOR LIGHTING	20	1	10	13	1500			830			14	-	-	-	-	
	EXTERIOR LIGHTING	20		8	15		600			830		16	-	-	-	-	
	EXTERIOR LIGHTING	20		8	17			1500			830	18	20	3	10	EF-I,EF-2	
	EBB-STO,EBB-NE	20		12	19	800			830			20	-	-	-	-	—
	EBB-SW	20		10	21		400			830		22	-	-	-	-	—
	PTAC-SI	25		8	23			6094			6094	24	25		8	PTAC-N	—
	PTAC-S2	25		8	25	6094			1080			26	20	3	10	EVAP-I & EF-COM	—
	EVAP-3	20	3	12	27		3045			1080		28		-		-	—
	-	-	-	-	29			3045			1080	30		-	_	-	—
	-	-	-	-	31	3045			6920			32	30	3	8	OHD-I	+-
	EBB-SW	20		12	33		400			6920	640.0	34	-	-	-	-	—
	SPARE	20			35						6920	36	-	-	-	-	—
	SPARE	20			37				6920	640.0		38	30	3	8	OHD-2	$+\!-\!$
	SPARE	20			39					6920	6.40.0	40	-	-	-	-	+-
	SPARE	20			41	10.404	0.000	20104	OFTIG	25714	6920	42	-	_	_	-	—
		FRONT: X	Jetanea	DD		16439 42158	8 <i>0</i> 33 33752	23l39 48858	25719 TOTAL	25719	25719	J					
		_	HINGED			152	122		AMPS / PHA	CE							
			DOOR-II			152	122	176		ASE							
ı	MOUNTING: FLUSH X SURFACE 9URFACE W/ SURFACE W/	SKIRT A	BOVE			TV9S:	X NONE CATEGO CATEGO CATEGO	RY "C" RY "B"	EMA RATING:	X NEMA I NEMA 3R NEMA 4X NEMA 12 STAINLES	9 STEEL					NNECTED LOAD: <u>124,768</u> CUIT RATING: SERIES - RAT X FULLY - RATI	
					RE	FER T <i>O O</i> NE	-LINE DIAGF	RAM FOR FI	EEDER , CONI	_		BIZES				42,000 AMPS RMS SYM	

	LIGHTING AND APPLIANCE PANELBOARD SCHEDULE																
:	PANEL NAME:'PI'	. TYPE:	N	QOD	CIRCUIT	BREAKERS:	X BOLT ON PLUG ON	1	120 /	<u>208</u> V	OLTAGE		3	_PH	4	_ M	
X ENGRAVED NAME TAGS BUS MATERIAL: X CU BUS X CU BUS			3US S	GROUND:	X GROUND X ISOL GN	NEUTRAL: X 100%			LUGS: X MAIN SUB-FEED			MAIN BREAKER: X AMPS 110					
FEED-THROI										ROUGH		BUS AMPS: 115	_				
							BR	ANCH	BREAK	ERS							
				WIRE	CIR.	I FE	T PHASE LO			HT PHASE L	<u> </u>	CIR.	AMP		WIRE		1
NOTES	ITEM	AMP	POLE	SIZE	NO.	A	B		A	T B	T c	NO.		POLE	SIZE	ITEM	NOTES
INOTES	C.O. UTILITY/STORAGE/RR	20	I	12	110.	1056			1176			2	20	I	12	EVAP-I PUMP C.O.	INOTES
	SOUTHEAST C.O.	20	 	10	3	1030	540		1110	200		4	20	 	12	TIME CLOCK	
	SOUTH C.O.	20	 	10	5		310	540	1	200	300	6	20	 	12	FACP	
	SOUTH RR	20	 	10	7	1056			540		330	8	20	 	12	TELEPHONE BOARD	+
	SOUTH OFFICE	20	i	10	9	1030	540		310	540		10	20	i	12	TELEPHONE BOARD	
	SOUTH OFFICE	20	i i	10	l i		0 10	540		3 10	300	12	20	i i	12	IRRIGATION CLOCK	
	WEST C.O.	20	i i	10	13	720		0 10	180		555	14	20	i i	12	UTILITY ROOM C.O.	
	WEST C.O.	20	i i	10	15	123	540		133	1176		16	20	i i	12	EVAP-2 PUMP C.O.	
	NORTH C.O.	20	i i	10	17		0 10	540		1110	1176	18	20	i i	12	EVAP-3 PUMP C.O.	
	NORTH OFFICE	20	i i	10	19	720		0 10	360			20	20	i i	12	EAST WALL C.O.	
	NORTH OFFICE	20	i i	10	21	123	720			500		22	20	i i	12	ELEC. FORK LIFT CHARGER	
	IRH-1,2,3,8	20	i i	8	23		120	480		333	1000	24	20	i i	12	CARDBOARD CRUSHER	
	IRH-4,5,6,7	20	i i	8	25	480		100			1000	26	20	i i		SPARE	
	SPARE	20	i i		27	100						28	20	i i		SPARE	
	SPARE	20	i i		29							30	20	i i		SPARE	
	SPARE	20	i i		31							32	20	i i		SPARE	
	SPARE	20	i i		33							34	20	i i		SPARE	
	SPARE	20	l i		35							36	20	i i		SPARE	
	SPARE	20	l i		37							38	20	i i		SPARE	
	SPARE	20	l i		39							40	20	i i		SPARE	
	SPARE	20	l i		41							42	20	i i		SPARE	
	5 / · · · · · · · ·		<u> </u>	Į.		4032	2340	2100	2256	2416	2776				l	317.11.2	
	F	RONT: X	STANDA	ARD .		6288	4756	4876	TOTAL			_					
			HINGED			52	40	41	AMPS / PHA	4SE							
			DOOR-II				•		_								
	MOUNTING: FLUSH					TVSS:	X NONE		EMA RATING:	X NEMA I				TC	OTAL <i>CO</i> I	NNECTED LOAD: 15,920	_
	X SURFACE						CATEGO			NEMA 3R							
	☐ SURFACE W/						CATEGO			NEMA 4X				SH	HORT CIR	RCUIT RATING: 🗌 SERIES - RATI	
	SURFACE W/	SKIRT B	ELOW				CATEGO	RY "A"		NEMA 12						X FULLY - RATE	D
	1						_			STAINLES	SS STEEL					_	
										_						10,000 AMPS RMS SYM	
					REF	ER TO ONE-I	LINE DIAGR	AM FOR FE	EDER , CON	DUIT AND C	ONDUCTOR	SIZES					

PANELBOARD SCHEDULE NOTES: I. PROVIDE CLASS A GROUND FAULT INTERRUPTER TYPE CIRCUIT BREAKER. 2. PROVIDE ARC FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER. 3. PROVIDE 30 MILLIAMPERE EQUIPMENT GROUNG FAULT PROTECTOR TYPE CIRCUIT BREAKER. 4. PROVIDE SHUNT-TRIP TYPE CIRCUIT BREAKER WITH 120V COIL. 5. PROVIDE HACR RATED CIRCUIT BREAKER. 6. PROVIDE HANDLE CLAMP FOR HOLDING CIRCUIT BREAKER IN THE "ON" OR "OFF" POSITION. 7. PROVIDE SWITCHING RATED CIRCUIT BREAKER. 8. PROVIDE NEW CIRCUIT BREAKER IN EXISTING PANELBOARD (WHERE PANEL IS INDICATED AS EXISTING) OF SAME MANUFACTURER AND A.I.C. RATING AS EXISTING. 9. EXISTING LOAD.

P	ANEL I	LEGEND
	_	H
	_	PI



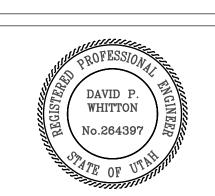
WILDING ENGINEERING, INC 14721 SOUTH HERITAGE CREST WAY BLUFFDALE, UTAH 84065 (801)553-8112

CRS ASSOCIATES 700 NORTH 200 WEST SALT LAKE CITY, UTAH 84103 (801) 355-5915 (801) 355-9885 DAVID TRIPLETT davet@crsa-us.com

MECHANICAL ENGINEERED MECHANICAL SOLUTIONS 986 WEST ATHERTON DRIVE, SUITE 200 TAYLORSVILLE, UTAH 84123 (801)268-3828 (801)268-3297 SCOTT DEAKINS scott@smdengineering.com

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STRUCTURAL DUNN ASSOCIATES, INC. 380 WEST 800 SOUTH STE 100 SALT LAKE CITY, UT 84101 (801)575-8877 (801)575-8875 CHRIS BAKER wmchrisb@dunn-se.com



UCI PRODUCTION WAREHOUSE

14126 PONY EXPRESS ROAD DRAPER, UT 84020

UTAH DIVISION OF FACILITIES, CONSTRUCTION AND MANAGEMENT (DFCM) 4110 STATE OFFICE BUILDING SALT LAKE CITY, UTAH 84114

PROJECT NO. 07284110 CONTRACT NO. 087137

CD	02/25/08 f	FINAL REVIEW						
PROJEC	T NO:							
CAD DV	CAD DWG FILE:							
DRAWN BY: MCC								
CHECK	D BY: DPW							

PANEL SCHEDULES \$ ENERGY CODE

EP801 SHEET

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